

10/658, 417

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
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NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPLUS
NEWS 22 FEB 05 German (DE) application and patent publication number format
changes

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:16:54 ON 17 FEB 2004

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 16:17:14 ON 17 FEB 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Feb 13, 2004 (20040213/UP).

=> FIL HOME
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.06	0.27

FULL ESTIMATED COST

FILE 'HOME' ENTERED AT 16:17:17 ON 17 FEB 2004

=> fil reg
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.48

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:17:24 ON 17 FEB 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 16 FEB 2004 HIGHEST RN 651003-77-9
DICTIONARY FILE UPDATES: 16 FEB 2004 HIGHEST RN 651003-77-9

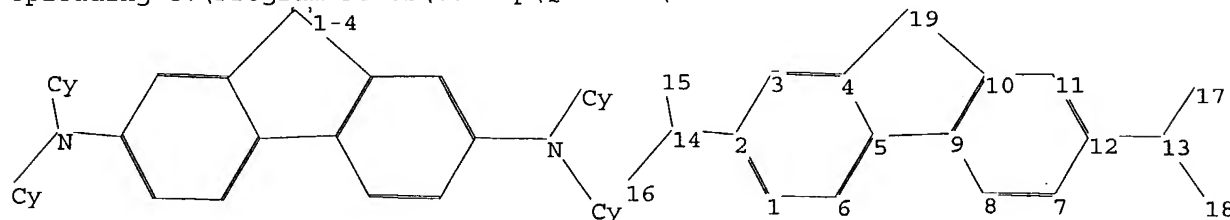
TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10658417.str



chain nodes :

```

13 14 15 16 17 18
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 19
chain bonds :
2-14 12-13 13-17 13-18 14-15 14-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-19 5-6 5-9 7-8 7-12 8-9 9-10 10-11 10-19 11-12
exact/norm bonds :
2-14 4-19 5-9 10-19 12-13 13-17 13-18 14-15 14-16
normalized bonds :
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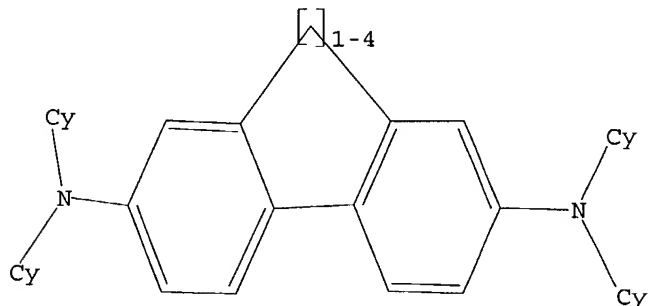
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

```

L1 STRUCTURE UPLOADED

=> d query

L1 STR



Structure attributes must be viewed using STN Express query preparation.

```

=> s l1
SAMPLE SEARCH INITIATED 16:17:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12626 TO ITERATE

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7.9% PROCESSED 1000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

```

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
PROJECTED ITERATIONS: 245792 TO 259248
PROJECTED ANSWERS: 388 TO 1126

```

L2 3 SEA SSS SAM L1

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=> s l1 full
FULL SEARCH INITIATED 16:17:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 253020 TO ITERATE

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100.0% PROCESSED 253020 ITERATIONS 850 ANSWERS
SEARCH TIME: 00.00.06

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L3 850 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
155.42	155.90

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:18:06 ON 17 FEB 2004
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FILE COVERS 1907 - 17 Feb 2004 VOL 140 ISS 8
FILE LAST UPDATED: 16 Feb 2004 (20040216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 224 L3

=> d l4 200-224 abs ibib hitstr

L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
 AB In the title electrophotog. imaging method, a photoreceptor which comprises on its elec. conductive support a photosensitive layer containing a polymeric charge-transporting material is utilized, and charging of the photoreceptor is effected by an elec. conductive material which is pressed against the photoreceptor and to which an elec. voltage is applied.
 ACCESSION NUMBER: 1995:921945 CAPLUS
 DOCUMENT NUMBER: 123:325717
 TITLE: Electrophotographic imaging method
 INVENTOR(S): Mashita, Kyokazu; Kojima, Fumio; Kobayashi, Tomoo; Okano, Sadao; Nukada, Katsumi; Imai, Akira; Igarashi, Ryosaku
 PATENT ASSIGNEE(S): Fuji Xerox Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

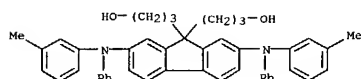
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07199503	A2	19950804	JP 1994-11370	19940107
JP 1994-11370			JP 1994-11370	19940107

PRIORITY APPLN. INFO.:
 IT 170368-55-5 170368-57-7 170368-59-9
 RL: DEV (Device component use); USES (Uses)
 (polymeric charge-transporting material for electrophotog. photoreceptor)
 RN 170368-55-5 CAPLUS
 CN Carbonic dichloride, polymer with 1,3-benzenediamine and 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI)

(CA INDEX NAME)

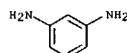
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CRN 137269-26-2
 CMF C45 H44 N2 O2

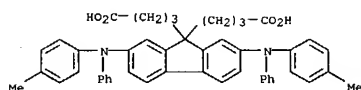


CM 2

CRN 108-45-2
 CMF C6 H8 N2

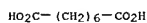


L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

CRN 505-48-6
 CMF C8 H14 O4



L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 3

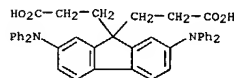
CRN 75-44-5
 CMF C C12 O



RN 170368-57-7 CAPLUS
 CN 9H-Fluorene-9,9-dipropionic acid, 2,7-bis(diphenylamino)-, polymer with 2,2'-(1,3-phenylenebis(oxy))bis(ethanol) (9CI) (CA INDEX NAME)

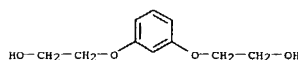
CM 1

CRN 170368-56-6
 CMF C43 H36 N2 O4



CM 2

CRN 102-40-9
 CMF C10 H14 O4



RN 170368-59-9 CAPLUS
 CN 9H-Fluorene-9,9-dibutanoic acid, 2,7-bis[(4-methylphenyl)phenylamino]-, polymer with octanedioic acid (9CI) (CA INDEX NAME)

CM 1

CRN 170368-58-8
 CMF C47 H44 N2 O4

L4 ANSWER 201 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
 AB An electrophotog. photosensitive member comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing 21 compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds. (Ar1)(Ar2)N-Ar3-(CH2C(R2))n-R1 (m.p. ≤135°) [Ar1 and Ar2 are aromatic ring groups, Ar3 is a bivalent aromatic ring group or a heterocyclic group, R1 is an alkyl group or an aromatic ring group, R2 is a H atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R1 and R2 possibly linking to form a ring when n = 1]; (B) triarylamine compound having a structure expressed by the following formula Ar4Ar5Ar6 (m.p. ≤150°) [Ar4, Ar5 and Ar6 = aromatic ring group or a heterocyclic group]; (C) hydrazone compds. A-(CR3:NNR4R5)m (m.p. ≤155°) [R3 is a H atom or an alkyl group, R4 and R5 are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group or -CH2C(R6)R7 (R6 and R7 are H atoms, aromatic ring groups or heterocyclic groups, but will never be H atoms at the same time)]. The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.

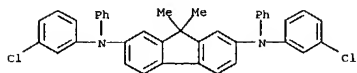
ACCESSION NUMBER: 1995:662912 CAPLUS
 DOCUMENT NUMBER: 123:270709
 TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same
 INVENTOR(S): Maruyama, Akio; Kikuchi, Toshiro; Anamiya, Shoji; Nagahara, Shin; Aoki, Katsumi
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: U.S., 43 pp. Cont.-in-part of U.S. Ser. No. 852,720, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5422210	A	19950606	US 1992-968465	19921029
JP 05100464	A2	19930423	JP 1992-62306	19920318
JP 2584930	B2	19970226		

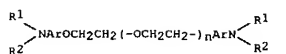
PRIORITY APPLN. INFO.:
 JP 1991-77290 19910318
 JP 1991-77291 19910318
 JP 1991-77292 19910318
 US 1992-852720 19920317
 JP 1992-62306 19920318

OTHER SOURCE(S): MARPAT 123:270709
 IT 145068-92-4
 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
 (charge transport agent for electrophotog. photoconductor)
 RN 145068-92-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis[3-chlorophenyl]-9,9-dimethyl-N,N'-

L4 ANSWER 201 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 202 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
GI

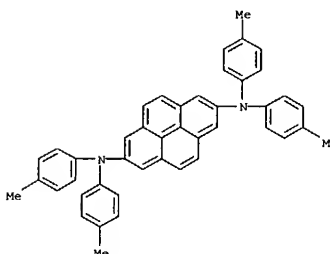


AB In the title electrophotog. photoreceptor comprising a charge-generating layer and a charge-transporting layer on an elec. conductive support, the charge-generating layer contains I (Ar = phenylene, biphenylene; R1,2 = alkyl, aryl; n = 1-4), or other compds. specified. This photoreceptor shows high sensitivity and good chargeability.

ACCESSION NUMBER: 1995:623514 CAPLUS
DOCUMENT NUMBER: 123:22137
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Umeda, Minoru; Nimi, Tatsuya
PATENT ASSIGNEE(S): Ricoh KK, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 130 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

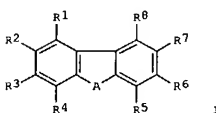
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07072634	A2	19950317	JP 1993-294803	19931029
IT 163969-53-7			JP 1993-177394	19930624

PRIORITY APPLN. INFO.:
RL: DEV (Device component use); USES (Uses)
(electrophotog. photoreceptor charge-generating layer from)
RN 163969-53-7 CAPLUS
CN 2,7-Pyrenediamine, N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 202 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 203 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
GI

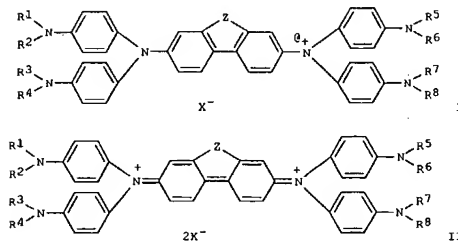
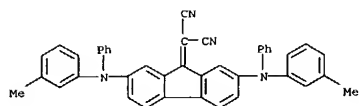


AB The materials contain compds. I [A = CH2, O, S, SO2, Se, Te, C:C(CN)2, NR9, PR10, C:O, C:S, C:Se, C:Te; R1-10 = H, halo, cyano, NO2, (mono- or di-substituted) NH2, ester, acylamino, OH, alkoxy, mercapto, alkoxy, alkylthio, aryloxy, siloxy, acyl, cycloalkyl, carbamoyl, CO2H, SO3H, (substituted) aliphatic, (substituted) alicyclic, (substituted) carbocyclic aromatic, (substituted) heterocyclic aromatic, (substituted) heterocyclic; adjacent groups may form (substituted) alicyclic, (substituted) carbocyclic aromatic, (substituted) heterocyclic. (aromatic)]. In the devices containing electroluminescent layers comprising organic compound thin films sandwiched by a pair of electrodes, at least one layer contains the materials.

ACCESSION NUMBER: 1995:541602 CAPLUS
DOCUMENT NUMBER: 123:156553
TITLE: Organic electroluminescent device materials and organic electroluminescent devices with them
INVENTOR(S): Enokida, Toshio; Ogawa, Tadashi
PATENT ASSIGNEE(S): Toyo Ink Mfg Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053950	A2	19950228	JP 1993-198454	19930810
JP 3114445	B2	20001204		
JP 2001043979	A2	20010216	JP 2000-174677	19930810

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 123:156553
IT 166745-87-5
RL: DEV (Device component use); PRP (Properties); USES (Uses)
(electroluminescent devices containing cyclic aromatic derivs.)
RN 166745-87-5 CAPLUS
CN Propanedinitrile, [2,7-bis[(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]- (9CI) (CA INDEX NAME)



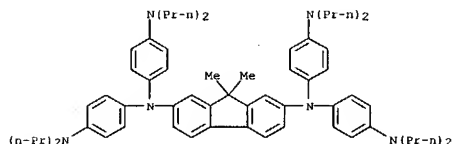
AB The title medium comprises an organic dye recording layer containing I and/or II
 (Z = CR9R10, C:CR11R12; X- = anion; R1-8 = C1-8 alkyl, alkoxy alkyl, alkenyl, aralkyl, alkynyl; R9-12 = H, halo, monovalent organic residual group)

ACCESSION NUMBER: 1995:528511 CAPLUS
 DOCUMENT NUMBER: 122:278238
 TITLE: Optical recording medium with improved heat- and light-resistant characteristics
 INVENTOR(S): Santo, Takeshi; Tamura, Miki; Sugata, Hiroyuki; Mihara, Choko
 PATENT ASSIGNEE(S): Canon Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06297855	A2	19941025	JP 1993-115229	19930420
PRIORITY APPLN. INFO.: MARPAT 122:278238				
OTHER SOURCE(S):				
IT 162817-13-2	162817-15-4	162817-17-6		
162817-19-8	162817-20-1	162817-22-3		
162817-24-5	162817-26-7	162817-28-9		
162817-30-3	162817-46-1	162817-48-3		
162817-50-7	162817-52-9	162817-54-1		
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (optical recording medium with heat- and light-resistant characteristics)				
RN 162817-13-2 CAPLUS				

CM 1

CRN 162817-12-1
 CMF C63 H84 N6
 CCI RIS



CM 2

CRN 14797-73-0
 CMF C1 O4

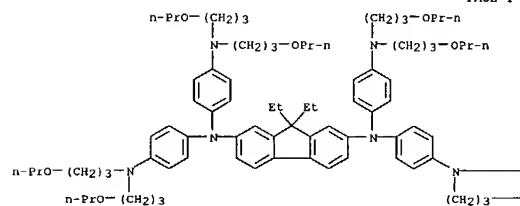


RN 162817-15-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-bis(3-propoxypropyl)amino]phenyl]-9,9-diethyl-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-14-3
 CMF C89 H136 N6 O8
 CCI RIS

PAGE 1-A



PAGE 1-B

— (CH2)3—OPr-n
 — OPr-n

CM 2

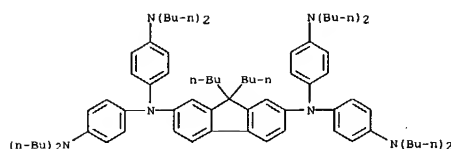
CRN 21228-90-0
 CMF C H3 O4 S

Me-O-SO3-

RN 162817-17-6 CAPLUS
 CN 9H-Fluorene-2,7-diamine, 9,9-dibutyl-N,N,N',N'-tetrakis[4-(dibutylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-16-5
 CMF C77 H112 N6
 CCI RIS

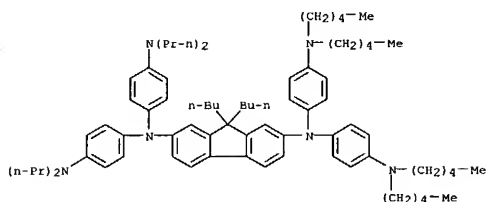


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CRN 14797-73-0
CMF C1 O4



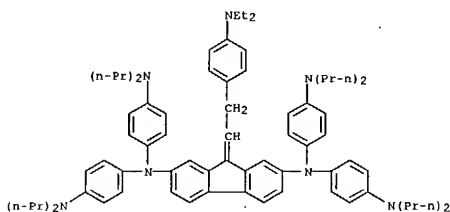
RN 162817-19-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dibutyl-N,N-bis[4-(dipentylamino)phenyl]-N',N'-bis[4-(dipropylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1
CRN 162817-18-7
CMF C77 H112 N6
CCI RIS



CM 2
CRN 14797-73-0

CRN 162817-21-2
CMF C73 H95 N7
CCI RIS



CM 2
CRN 14797-73-0
CMF C1 O4



RN 162817-24-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-bis(3-propoxypropylamino)phenyl]-9-(1-methylethylidene)-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

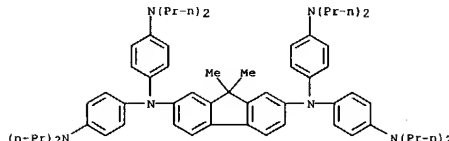
CM 1
CRN 162817-23-4
CMF C88 H132 N6 O8
CCI RIS

CMF C1 O4

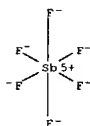


RN 162817-20-1 CAPLUS
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with N,N,N',N'-tetrakis[4-(dipropylamino)phenyl]-9,9-dimethyl-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 162817-12-1
CMF C63 H84 N6
CCI RIS



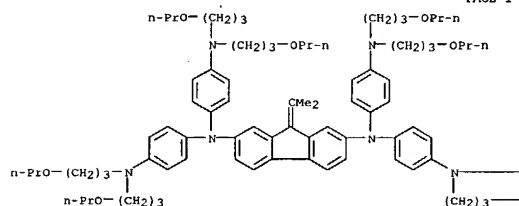
CM 2
CRN 17111-95-4
CMF F6 Sb
CCI CCS



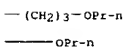
RN 162817-22-3 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-[2-[4-(diethylamino)phenyl]ethylidene]-N,N,N',N'-tetrakis[4-(dipropylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

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PAGE 1-B



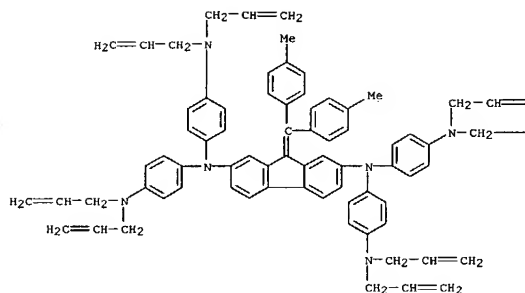
CM 2
CRN 21226-90-0
CMF C H3 O4 S



RN 162817-26-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-[bis(4-methylphenyl)methylene]-N,N,N',N'-tetrakis[4-(di-2-propenylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1
CRN 162817-25-6
CMF C76 H76 N6
CCI RIS

PAGE 1-A



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CM 2

CRN 14797-73-0
CMF C1 04



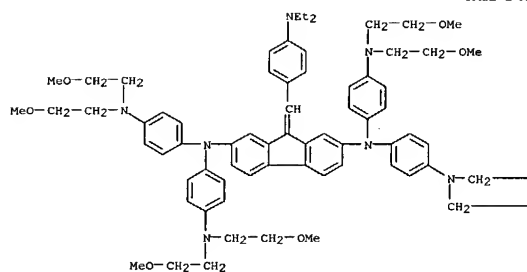
RN 162817-28-9 CAPLUS
CN 9H-Fluorene-2,7-diamine,
N,N,N',N'-tetrakis[4-(di-3-butenylamino)phenyl]-9-
(1-methylethylidene)-, radical ion(1+), perchlorate (9CI) (CA INDEX
NAME)

RN 162817-30-3 CAPLUS
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with N,N',N'-tetrakis[4-bis(2-methoxyethyl amino)phenyl]-9-[[4-(diethylamino)phenyl]methylene]-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

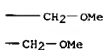
CM 1

CRN 162817-29-0
CMF C72 H93 N7 08
CCI RIS

PAGE 1-A



PAGE 1-B

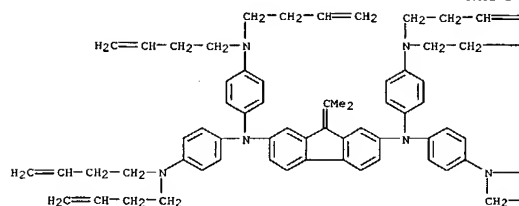


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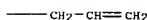
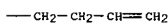
CM 1

CRN 162817-27-8
CMF C72 H84 N6
CCI RIS

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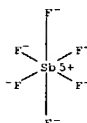


CM 2

CRN 14797-73-0
CMF C1 04



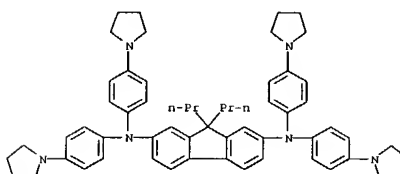
CRN 17111-95-4
CMF F6 Sb
CCI CCS



RN 162817-46-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dipropyl-N,N,N',N'-tetrakis[4-(1-pyrrolidinyl)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-45-0
CMF C59 H68 N6
CCI RIS



CM 2

CRN 14797-73-0
CMF C1 04

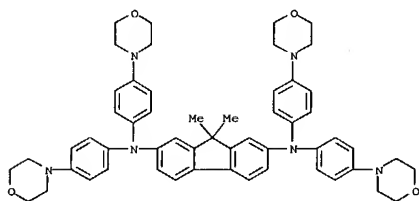


RN 162817-48-3 CAPLUS
CN Arsenate(1-), hexafluoro-, salt with
9,9-dimethyl-N,N,N',N'-tetrakis[4-(4-

L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
morpholinyl)phenyl]-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

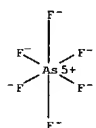
CM 1

CRN 162817-47-2
CMF C55 H60 N6 O4
CCI RIS



CM 2

CRN 16973-45-8
CMF As F6
CCI CCS



RN 162817-50-7 CAPLUS
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with 9,9-diethyl-N,N,N',N'-tetrakis[4-(2-methyl-1-pyrrolidinyl)phenyl]-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 162817-49-4
CMF C61 H72 N6
CCI RIS

L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 2

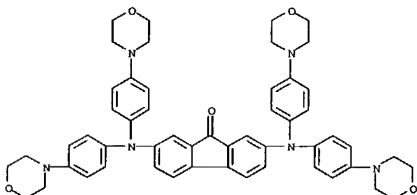
CRN 14797-73-0
CMF Cl O4



RN 162817-54-1 CAPLUS
CN Arsenate(1-), hexafluoro-, salt with 2,7-bis[4-(4-morpholinyl)phenyl]amino]-9H-fluorene-9-one (1:1) (9CI) (CA INDEX NAME)

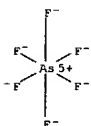
CM 1

CRN 162817-53-0
CMF C53 H54 N6 O5
CCI RIS

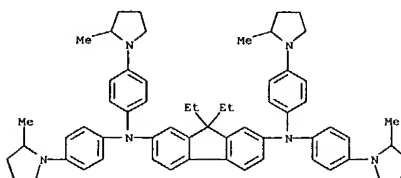


CM 2

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CMF As F6
CCI CCS

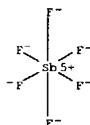


L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

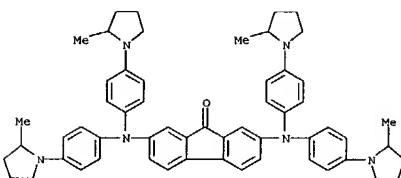
CRN 17111-95-4
CMF F6 Sb
CCI CCS



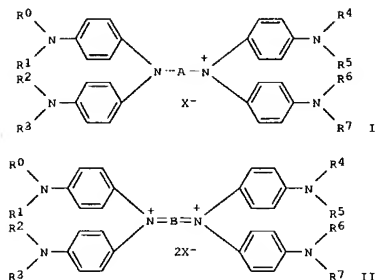
RN 162817-52-9 CAPLUS
CN 9H-Fluorene-9-one, 2,7-bis[bis[4-(2-methyl-1-pyrrolidinyl)phenylamino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-51-8
CMF C57 H62 N6 O
CCI RIS



L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



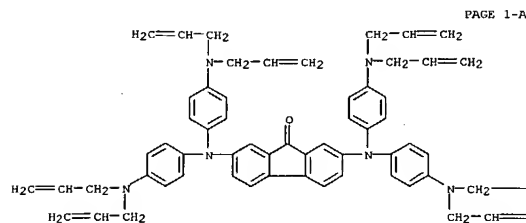
AB The title compound has a formula I or II (R0-7= H, monovalent organic residue while at least 1 of them contains F; or at least 1 group of R0 and R1, R2 and R3, R4 and R5 and R6 and R7 being atoms required to form a F-containing 5-7-membered ring with N while others being H, monovalent organic residue, A, B = specified aromatic group; X = anion). The recording medium contains the above compound in its recording layer. The compound shows good solubility and heat resistance to give recording medium with superior light and heat-resistance.

ACCESSION NUMBER: 1994:712146 CAPLUS
DOCUMENT NUMBER: 121:312146
TITLE: IR-absorbing compound and optical recording medium using same
INVENTOR(S): Mihara, Cheko; Tamura, Miki; Santo, Takeshi; Sugata, Hiroyuki
PATENT ASSIGNEE(S): Canon Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 109 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06024146	A2	19940201	JP 1993-110576	19930512
PRIORITY APPLN. INFO.:			JP 1992-145046	19920512

1T 159253-51-7 159253-53-9 159253-54-0

L4 ANSWER 205 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
159253-56-2 159253-58-4 159253-60-8
159253-62-0
RL: USES (Uses)
(IR-absorbent, optical recording medium using)
RN 159253-51-7 CAPLUS
CN 9H-Fluorene-9-one, 2,7-bis[bis[4-(di-2-propenylamino)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)
CM 1
CRN 159253-50-6
CMF C61 H62 N6 O
CCI RIS



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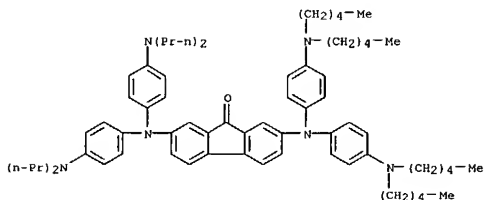
CM 2
CRN 14797-73-0
CMF C1 O4



RN 159253-53-9 CAPLUS
CN 9H-Fluorene-9-one, 2-[bis[4-(dipropylamino)phenyl]amino]-7-[bis[4-(dipropylamino)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-52-8
CMF C69 H94 N6 O
CCI RIS



CM 2

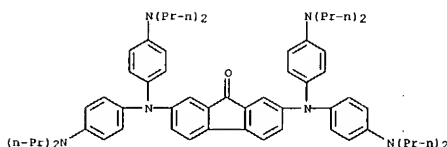
CRN 14797-73-0
CMF C1 O4



RN 159253-54-0 CAPLUS
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with 2,7-bis[bis[4-(dipropylamino)phenyl]amino]-9H-fluorene-9-one (1:1) (9CI) (CA INDEX NAME)

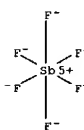
CM 1

CRN 159253-48-2
CMF C61 H78 N6 O
CCI RIS



CM 2

CRN 17111-95-4
CMF F6 Sb
CCI CCS

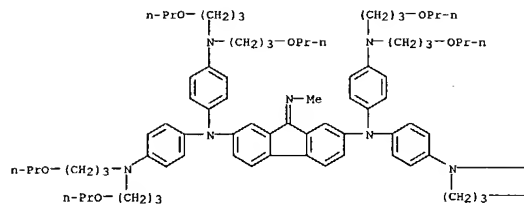


RN 159253-56-2 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-[bis(3-propoxypropyl)amino]phenyl]-9-(methylimino)-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

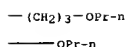
CM 1

CRN 159253-55-1
CMF C86 H129 N7 O8
CCI RIS

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CM 2

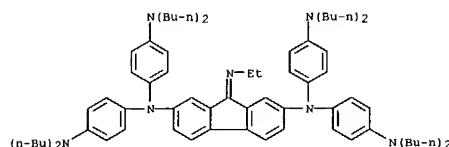
CRN 21228-90-0
CMF C H3 O4 S

RN 159253-58-4 CAPLUS
 CN 9H-Fluorene-2,7-diamine,
 N,N,N',N'-tetrakis[4-(di-2-propenylamino)phenyl]-
 9-(2-propenylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-57-3
CMF C64 H67 N7
CCI RIS

CCI RIS



CM 2

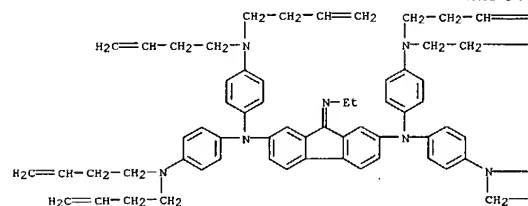
CRN 14797-73-0
CMF C1 O4

RN 159253-62-0 CAPLUS
 CN 9H-Fluorene-2,7-diamine,
 N,N,N',N'-tetrakis[4-(di-3-butenylamino)phenyl]-9-
 (ethylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

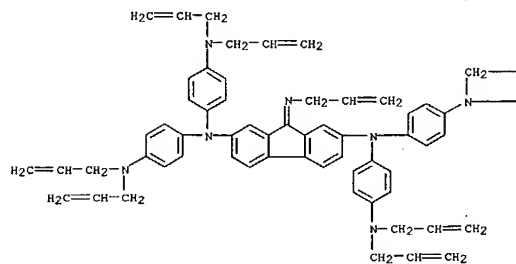
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CRN 159253-61-9
CMF C71 H83 N7
CCI RIS

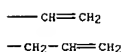
PAGE 1-A



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CM 2

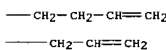
CRN 14797-73-0
CMF C1 O4

RN 159253-60-8 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(dibutylamino)phenyl]-9-
 (ethylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-59-5
CMF C71 H99 N7

PAGE 1-B

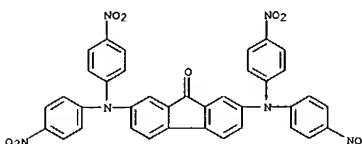


CM 2

CRN 14797-73-0
CMF C1 O4

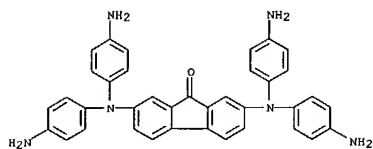
IT 159252-77-4P 159252-78-5P 159252-79-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, IR-absorbing compound from, for optical
 recording medium)

RN 159252-77-4 CAPLUS
 CN 9H-Fluorene-9-one, 2,7-bis[bis(4-nitrophenyl)amino]- (9CI) (CA INDEX
 NAME)

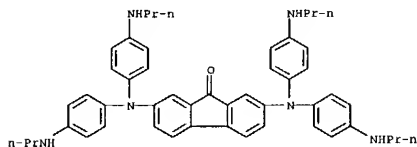


RN 159252-78-5 CAPLUS
 CN 9H-Fluorene-9-one, 2,7-bis[bis(4-aminophenyl)amino]- (9CI) (CA INDEX
 NAME)

L4 ANSWER 205 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 159252-79-6 CAPLUS
CN 9H-Fluoren-9-one, 2,7-bis[bis[4-(propylamino)phenyl]amino]- (9CI) (CA INDEX NAME)

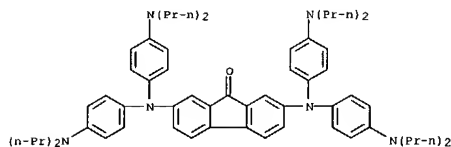


IT 159253-49-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as IR-absorbent, optical recording medium using)

RN 159253-49-3 CAPLUS
CN 9H-Fluoren-9-one, 2,7-bis[bis[4-(diisopropylamino)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

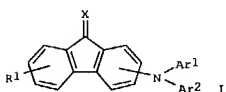
CM 1

CRN 159253-48-2
CMF C61 H78 N6 O
CCI RIS



CM 2

L4 ANSWER 206 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
GI



AB The title material possesses a photosensitive layer containing I [R1 = H, halo, alkyl, aralkyl, amino, alkoxy, OH; Ar1, Ar2 = aryl, heterocyclyl; X = (CH2)n; n = 2-10].

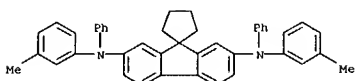
ACCESSION NUMBER: 1994:711898 CAPLUS
DOCUMENT NUMBER: 121:311898
TITLE: Fluorene-type compound charge-transporting material using electrophotographic photoreceptor
INVENTOR(S): Kikuchi, Norihiro; Senoo, Akihiro; Tanaka, Takakazu; Kanamaru, Tetsuo
PATENT ASSIGNEE(S): Canon Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06102683	A2	19940415	JP 1992-274881	19920921
JP 2981348	B2	19991122		

PRIORITY APPLN. INFO.: JP 1992-274881 19920921
OTHER SOURCE(S): MARPAT 121:311898

IT 159322-30-2
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(charge-transporting material; Fluorene-type compound charge-transporting material using electrophotog. photoreceptor)

RN 159322-30-2 CAPLUS
CN Spiro[cyclopentane-1,9']-[9H]fluorene)-2',7'-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 205 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CRN 14797-73-0
CMF Cl O4



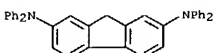
L4 ANSWER 207 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
AB An electrophotog. photosensitive member is constituted by disposing a photosensitive layer on an electroconductive support. The photosensitive layer is characterized by containing a specific fluorene compound or by containing another specific fluorene compound and a specific triphenylamine compound. The photosensitive layer is suitable for providing an electrophotog. apparatus showing excellent electrophotog. characteristics such as high photosensitivity, good potential stability in repetitive use, decreased transfer memory, no crack in the photosensitive layer and no crystallization of charge-transporting material.

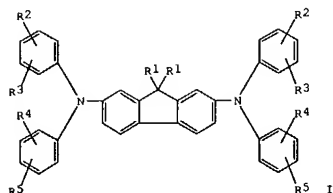
ACCESSION NUMBER: 1994:422447 CAPLUS
DOCUMENT NUMBER: 121:22447
TITLE: Electrophotographic photosensitive member
INVENTOR(S): Kanamaru, Tetsuo; Kikuchi, Toshihiro; Senoo, Akihiro;
PATENT ASSIGNEE(S): Tanaka, Takakazu
SOURCE: Canon K. K., Japan
Eur. Pat. Appl., 79 pp.
CODEN: EPXXEW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 567396	A1	19931027	EP 1993-401030	19930421
EP 567396	B1	19990721		
R: DE, FR, GB				
JP 05303220	A2	19931116	JP 1992-129417	19920423
JP 2798200	B2	19980917		
JP 05303225	A2	19931116	JP 1992-129421	19920423
JP 2839053	B2	19981216		
US 5415962	A	19950516	US 1993-48526	19930420
JP 06011868	A2	19940121	JP 1993-97743	19930423
JP 3155856	B2	20010416		
CN 1062726	A	19940223	CN 1993-106367	19930423
CN 1086231	B	20020612		

PRIORITY APPLN. INFO.: JP 1992-129417 A 19920423
JP 1992-129421 A 19920423
JP 1992-129426 A 19920423

OTHER SOURCE(S): MARPAT 121:22447
IT 155926-52-6
RL: USES (Uses)
(photosensitive compns. containing, for electrophotog photoreceptors)
RN 155926-52-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)





AB The device comprises a hole-transporting layer consisting of a fluorene amine derivative I (R1 = alkyl, aralkyl; R2-5 = H, alkyl, alkoxy, halo).

The device has a long-life stability with low threshold driver inputs.

ACCESSION NUMBER: 1994:90352 CAPLUS
DOCUMENT NUMBER: 120:90352
TITLE: Organic electroluminescent device
INVENTOR(S): Takuma, Hirosuke
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKKXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05025473	A2	19930202	JP 1991-181161	19910722
JP 3065130	B2	20000712		

PRIORITY APPLN. INFO.: MARPAT 120:90352
OTHER SOURCE(S):
IT 152008-55-4 152008-56-5 152008-57-6
152008-58-7 152008-59-8 152008-60-1
152008-61-2

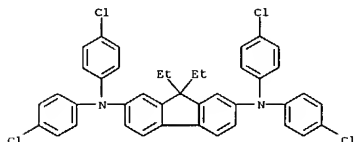
RL: PRP (Properties)
(hole transporter, in electroluminescent devices)
RN 152008-55-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-methoxyphenyl)-9,9-bis(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 152008-56-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3,5-dimethylphenyl)-9,9-dihexyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

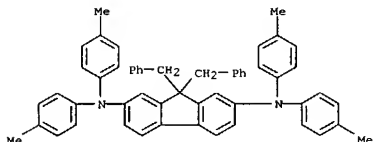
RN 152008-57-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-didodecyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

RN 152008-58-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-chlorophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)

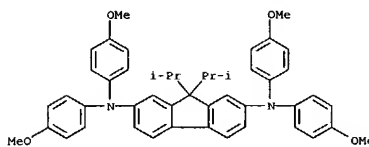
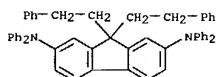
RN 152008-59-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-chlorophenyl)-9,9-diethyl- (9CI) (CA INDEX NAME)



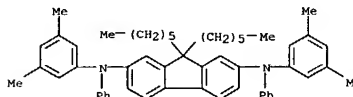
RN 152008-60-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-methylphenyl)-9,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



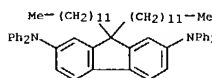
RN 152008-61-2 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl-9,9-bis(2-phenylethyl)- (9CI) (CA INDEX NAME)



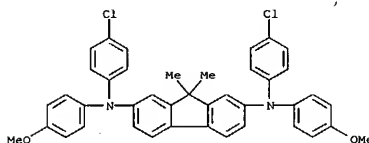
RN 152008-56-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3,5-dimethylphenyl)-9,9-dihexyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 152008-57-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-didodecyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 152008-58-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-chlorophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)



RN 152008-59-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-chlorophenyl)-9,9-diethyl- (9CI) (CA INDEX NAME)

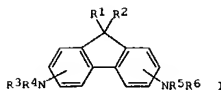
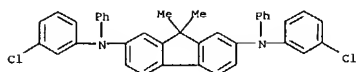
L4 ANSWER 209 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
AB The title material comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing a compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds. having a structure Ar1Ar2Ar3(CH:CR2)nR1 and a m.p. $\leq 135^\circ$. [Ar1 and Ar2 are aromatic ring groups, Ar3 is a bivalent aromatic ring group or a bivalent heterocyclic group, R1 is an alkyl group or an aromatic ring group, R2 is a H atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R1 and R2 possibly linking to form a ring when n = 1]; (B) triarylamine compds. having a structure Ar4Ar5Ar6 and m.p. $\leq 150^\circ$ [Ar4, Ar5 and Ar6 are each an aromatic ring group or a heterocyclic group]; (C) hydrazone compds. having a structure A[C(R3):NNR4R5]m [R3 is a H atom or an alkyl group, R4 and R5 are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group, or -CH:CR6R7 [R6 and R7 are H atoms, aromatic ring groups or heterocyclic groups, but will never be H atoms at the same time]. The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.

ACCESSION NUMBER: 1993:482826 CAPLUS
DOCUMENT NUMBER: 119:82826
TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same
INVENTOR(S): Maruyama, Akio; Kikuchi, Toshihiro; Amamiya, Shoji; Nagahara, Shin; Aoki, Katsumi; Tsuji, Haruyuki
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Eur. Pat. Appl., 67 pp.
CODEN: EPKXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 504794	A1	19920923	EP 1992-104575	19920317
EP 504794	B1	19980603		

R: DE, FR, GB
PRIORITY APPLN. INFO.: JP 1991-77290 19910318
JP 1991-77291 19910318
JP 1991-77292 19910318

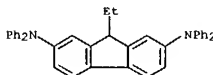
OTHER SOURCE(S): MARPAT 119:82826
IT 145068-92-4
RL: USES (Uses)
(electrophotog. plate with protective layer containing, for crack reduction)
RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



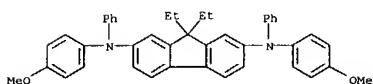
AB In the electrophotog. photoreceptor with a photosensitive layer coated on a support, the photosensitive layer contains crystal oxytitanium phthalocyanine having strong peaks in Bragg angle $2\theta \pm 0.2^\circ = 9.0, 14.2, 23.9, \text{ and } 27.1^\circ$ in x-ray diffraction spectrum using $\text{CuK}\alpha$, and fluorene compound I (R1-2 = H, (substituted) alkyl, (substituted) aralkyl, (substituted) aryl; R3-6 = (substituted) aryl). The photoreceptor shows stable charging property and high sensitivity to longer wave length such as laser diode.

ACCESSION NUMBER: 1993:49248 CAPLUS
DOCUMENT NUMBER: 118:49248
TITLE: Electrophotographic photoreceptor using oxytitanium phthalocyanine and fluorene compound
INVENTOR(S): Kikuchi, Norihiro; Tanaka, Takakazu; Senoo, Akihiro
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JQXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

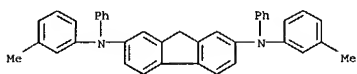
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04159557	A2	19920602	JP 1990-286397	19901023
PRIORITY APPLN. INFO.: JP 1990-286397 19901023				
IT 114482-18-7	114494-32-5	142517-32-6		
143886-09-3	143886-11-7	143886-14-0		
145068-92-4	145068-93-5	145068-94-6		
145068-95-7				
RL: USES (Uses)				
(charge-transporting agent, electrophotog. photoreceptor using)				
RN 114492-18-7	CAPLUS			
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-tetraphenyl-	(9CI)	(CA INDEX NAME)		



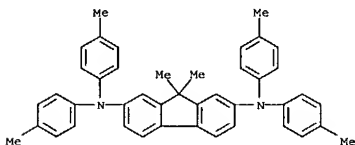
RN 114494-32-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



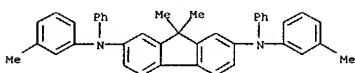
RN 142517-32-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



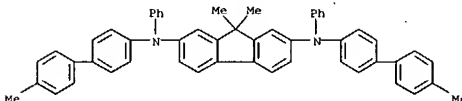
RN 143886-09-3 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



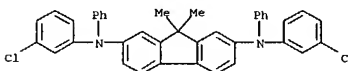
RN 143886-11-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



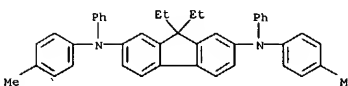
RN 143886-14-0 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(4'-methyl[1,1'-biphenyl]-4-yl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



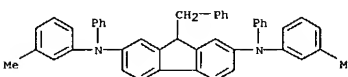
RN 145068-92-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



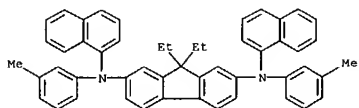
RN 145068-93-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



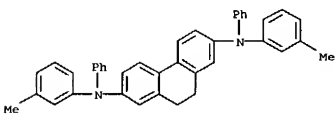
RN 145068-94-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl-9-(phenylmethyl)- (9CI) (CA INDEX NAME)



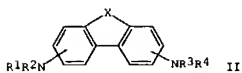
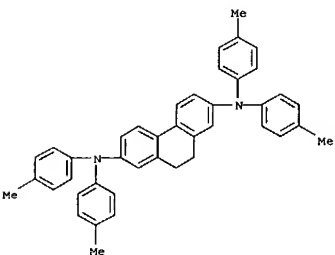
RN 145068-95-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(3-methylphenyl)-N,N'-di-1-naphthalenyl- (9CI) (CA INDEX NAME)



RN 144726-98-7 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 144726-99-8 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)

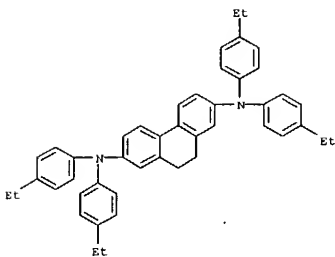


AB Claimed are (1) an electrophotog. photoconductor having a photosensitive layer, which comprises at least a charge-generating layer containing titanyloxophthalocyanine (I) and a charge-transporting layer containing ≥ 1 condensed aromatic cyclic derivs. II [R1-4 = (substituted) alkyl, aralkyl, aryl; X = CH₂CH₂, CH=CH], on an elec. conductive support, (2) an electrophotog. device using the photoconductor, and (3) a facsimile having the device and a receptor for image from remote terminal. The photoconductor, e.g., a combination of I and II (R1-4 = p-ethylphenyl), is useful for repeating use.

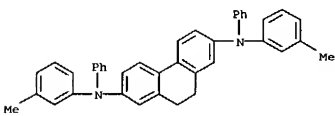
ACCESSION NUMBER: 1993:49232 CAPLUS
DOCUMENT NUMBER: 118:49232
TITLE: Electrophotographic photoconductor containing condensed aromatic cyclic derivative, electrophotographic device, and facsimile using same
INVENTOR(S): Senoo, Akihiro; Kikuchi, Norihiro; Tanaka, Takakazu
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04186362	A2	19920703	JP 1990-314404	19901121

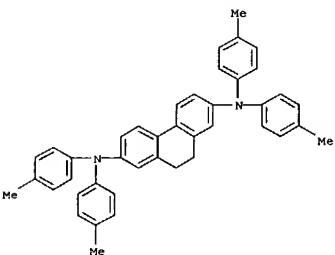
PRIORITY APPLN. INFO.:
IT 113933-89-4 144726-98-7 144726-99-8
145022-08-8 145022-09-9 145022-10-2
145022-11-3 145022-12-4 145022-15-7
145022-16-8 145022-17-9 145022-18-0
145022-19-1 145257-04-1
RL: USES (Uses)
(charge-transporting agent, for electrophotog. photoconductor, for facsimile)
RN 113933-89-4 CAPLUS
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-ethylphenyl)-9,10-dihydro- (9CI) (CA INDEX NAME)



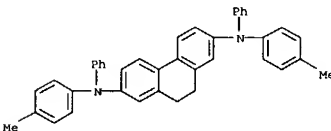
RN 144726-98-7 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



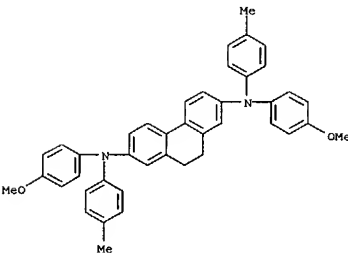
RN 144726-99-8 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



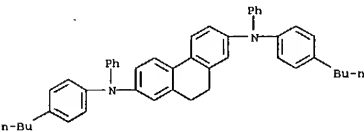
RN 145022-08-8 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 145022-09-9 CAPLUS
CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(4-methoxyphenyl)-N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)

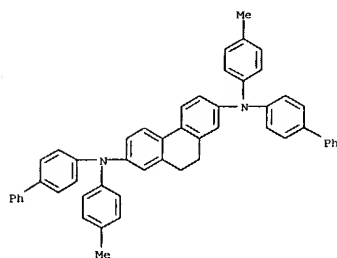


RN 145022-10-2 CAPLUS
CN 2,7-Phenanthrenediamine, N,N'-bis(4-butylphenyl)-9,10-dihydro-N,N'-diphenyl- (9CI) (CA INDEX NAME)

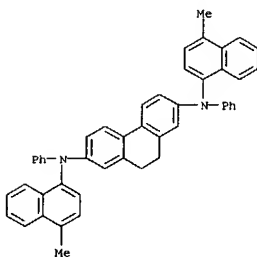


RN 145022-11-3 CAPLUS

L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CN 2,7-Phenanthrenediamine,
 N,N'-bis((1,1'-biphenyl)-4-yl)-9,10-dihydro-N,N'-
 bis(4-methylphenyl)- (9CI) (CA INDEX NAME)

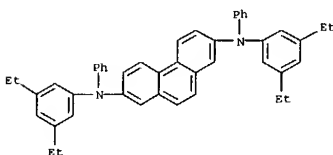


RN 145022-12-4 CAPLUS
 CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(4-methyl-1-naphthalenyl)-
 N,N'-diphenyl- (9CI) (CA INDEX NAME)

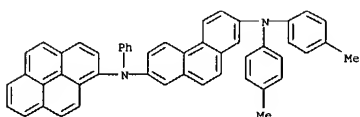


RN 145022-15-7 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI)
 (CA INDEX NAME)

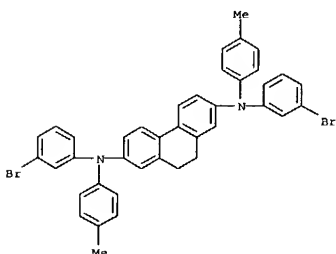
L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



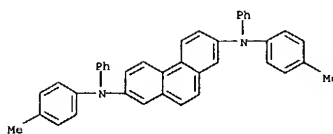
RN 145022-19-1 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N-bis(4-methylphenyl)-N'-phenyl-N'-1-pyrenyl-
 (9CI) (CA INDEX NAME)



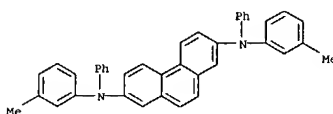
RN 145257-04-1 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N'-bis(3-bromophenyl)-9,10-dihydro-N,N'-bis(4-
 methylphenyl)- (9CI) (CA INDEX NAME)



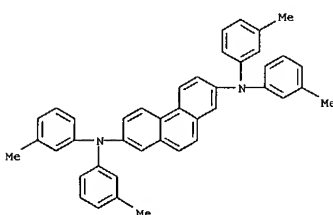
L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 145022-16-8 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)
 (CA INDEX NAME)

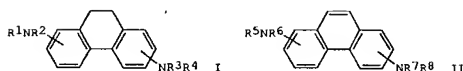


RN 145022-17-9 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(3-methylphenyl)- (9CI) (CA
 INDEX NAME)



RN 145022-18-0 CAPLUS
 CN 2,7-Phenanthrenediamine, N,N'-bis(3,5-diethylphenyl)-N,N'-diphenyl- (9CI)
 (CA INDEX NAME)

L4 ANSWER 212 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
 GI



AB The photoreceptor contains oxytitanium phthalocyanine with x-ray
 diffraction peak (CuK α) 9.0, 14.2, 23.9, and 27.1 $^\circ$ (Bragg
 angle, $2\theta \pm 0.2^\circ$) and a dihydrophenanthrene compound I or a
 phenanthrene compound II [R1-R8 = (substituted) alkyl, aralkyl, aryl].

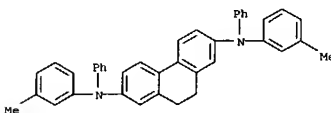
The apparatus and facsimile using the photoreceptor are also claimed.
 ACCESSION NUMBER: 1992:661648 CAPLUS
 DOCUMENT NUMBER: 117:261648
 TITLE: Electrophotographic photoreceptor containing
 oxytitanium phthalocyanine, its apparatus, and
 facsimile
 INVENTOR(S): Kikuchi, Norihiro; Tanaka, Takakazu; Senoo, Akihiro
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04181260	A2	19920629	JP 1990-308727	19901116
JP 2879369	B2	19990405		

PRIORITY APPLN. INFO.: JP 1990-308727 19901116
 OTHER SOURCE(S): MARPAT 117:261648
 IT 144726-98-7 144726-99-8 144727-00-4
 144727-01-5 144727-03-7 144727-05-9

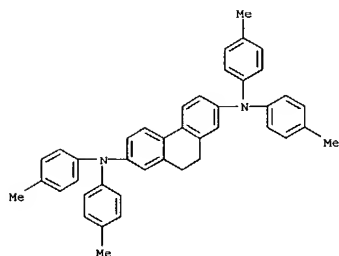
RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. photoreceptor charge-transporting agent)
 RN 144726-98-7 CAPLUS

CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N'-bis(3-methylphenyl)-N,N'-
 diphenyl- (9CI) (CA INDEX NAME)

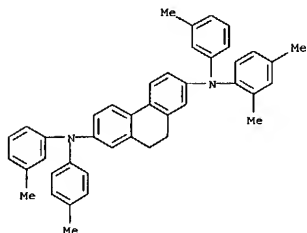


RN 144726-99-8 CAPLUS
 CN 2,7-Phenanthrenediamine, 9,10-dihydro-N,N,N',N'-tetrakis(4-methylphenyl)-

L4 ANSWER 212 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(9CI) (CA INDEX NAME)



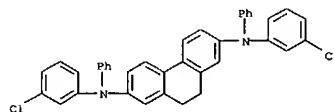
RN 144727-00-4 CAPLUS
CN 2,7-Phenanthrenediamine, N-(2,4-dimethylphenyl)-9,10-dihydro-N,N'-bis(3-methylphenyl)-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



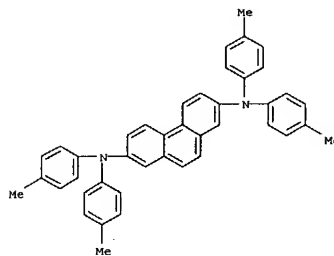
RN 144727-01-5 CAPLUS
CN 2,7-Phenanthrenediamine, N,N'-bis(3-chlorophenyl)-9,10-dihydro-N,N'-diphenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 212 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

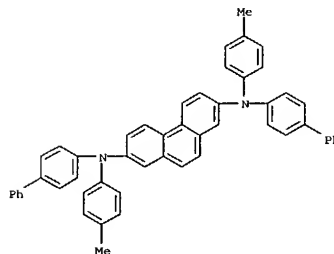
L4 ANSWER 212 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



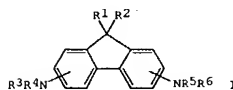
RN 144727-03-7 CAPLUS
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



RN 144727-05-9 CAPLUS
CN 2,7-Phenanthrenediamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 213 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
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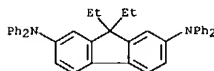
AB The title photoreceptors have charge-generating layers containing oxytitanium phthalocyanine pigments and charge-transporting layers containing fluorene compounds. I [R1-2 = H, halo, OH, alkyl, alkoxy, aralkyl, aryl; R3-6 = alkyl, aralkyl, aryl].

ACCESSION NUMBER: 1992:623068 CAPLUS
DOCUMENT NUMBER: 117:223068
TITLE: Electrophotographic photoreceptors containing oxytitanium phthalocyanine pigment and fluorene compound
INVENTOR(S): Senoo, Akihiro; Kikuchi, Norihiro; Tanaka, Takakazu
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

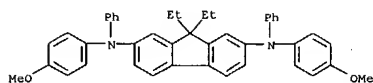
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04159558	A2	19920602	JP 1990-286399	19901023
PRIORITY APPLN. INFO.:				
114482-25-6	114494-32-5	143886-07-1	JP 1990-286399	19901023
143886-08-2	143886-09-3	143886-10-6		
143886-11-7	143886-12-8	143886-13-9		
143886-14-0	143886-15-1	143886-16-2		

RL: USES (Uses)
(electrophotog. photoreceptor containing, charge-transporting agent)

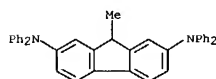
RN 114482-25-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



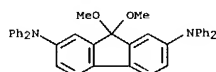
RN 114494-32-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



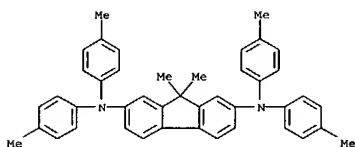
RN 143886-07-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-methyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



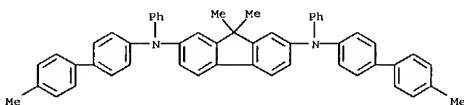
RN 143886-08-2 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethoxy-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



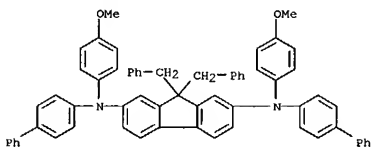
RN 143886-09-3 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



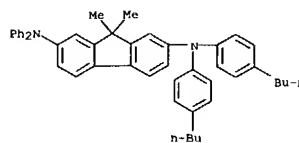
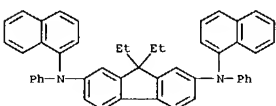
RN 143886-10-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N-bis(4-butylphenyl)-9,9-dimethyl-N',N'-diphenyl- (9CI) (CA INDEX NAME)



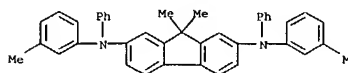
RN 143886-15-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-methoxyphenyl)-9,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



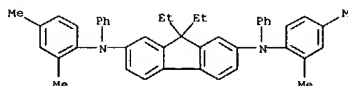
RN 143886-16-2 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-di-1-naphthalenyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



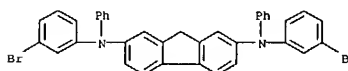
RN 143886-11-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



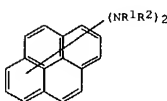
RN 143886-12-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(2,4-dimethylphenyl)-9,9-diethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 143886-13-9 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-bromophenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 143886-14-0 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-methyl[1,1'-biphenyl]-4-yl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



AB The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing 21 diaminopyrene compound I [R1-2 = (substituted) alkyl or aryl, except 1,6-diaminopyrene]. The photoreceptors show good photosensitivity, thermal resistance, and mech. strength. Thus, an Al vapor-deposited polyester film was coated with a charge-generating layer containing Diane Blue and a charge-transporting layer

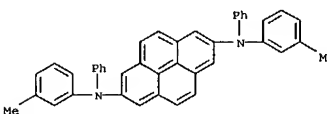
containing N,N,N',N'-tetrakis(4-methylphenyl)-1,3-diaminopyrene to give a photoreceptor.

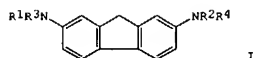
ACCESSION NUMBER: 1992:560887 CAPLUS
DOCUMENT NUMBER: 117:160887
TITLE: Electrophotographic photoreceptors using diaminopyrene
INVENTOR(S): compound charge-transporting agent
PATENT ASSIGNEE(S): Shimada, Tomoyuki; Sasaki, Masaomi; Ariga, Tamotsu
SOURCE: Ricoh Co., Ltd., Japan
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04118658	A2	19920420	JP 1990-175561	19900702
JP 3030441	B2	20000410		

PRIORITY APPLN. INFO.: JP 1990-140887 A1 19900530

IT 143141-30-4
RL: USES (Uses)
(charge-transporting agent, electrophotog. photoreceptor using)
RN 143141-30-4 CAPLUS
CN 2,7-Pyrenediamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)





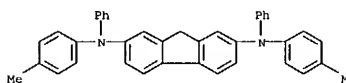
I

AB The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing fluorene derivative I [R1-4 = (substituted) aryl].
The photoreceptors show high photosensitivity and good charge stability in repeated use. Thus, an Al substrate was coated with a charge-generating layer containing a bisazo pigment and with a charge-transporting layer containing

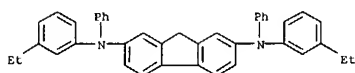
I (R1-2 = PrC6H4-m, R3-4 = Ph) to give a photoreceptor.
ACCESSION NUMBER: 1992:458899 CAPLUS
DOCUMENT NUMBER: 117:58899
TITLE: Electrophotographic photoreceptors using fluorene derivative charge-transporting agent
INVENTOR(S): Kikuchi, Norihiro; Kanamaru, Tetsuo; Senoo, Akihiro; Tanaka, Takakazu
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKCXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04078859	A2	19920312	JP 1990-192674	19900720
JP 2728967	B2	19980318		

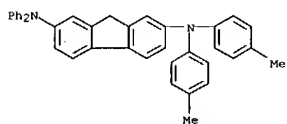
PRIORITY APPLN. INFO.: JP 1990-192674 19900720
OTHER SOURCE(S): MARPAT 117:58899
IT 142517-33-7 142517-34-8 142517-35-9
142517-36-0 142517-37-1 142517-38-2
142517-39-3 142517-40-6 142517-41-7
142517-42-8 142541-90-0 142541-91-1
RL: USES (Uses)
(charge-transporting agent, electrophotog. photoreceptor using)
RN 142517-33-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



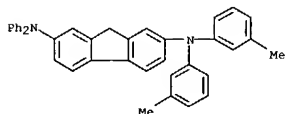
RN 142517-34-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-ethylphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



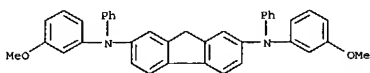
RN 142517-35-9 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



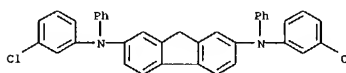
RN 142517-36-0 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



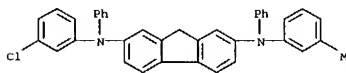
RN 142517-37-1 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methoxyphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



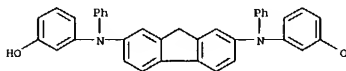
RN 142517-38-2 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



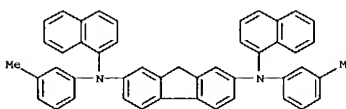
RN 142517-39-3 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



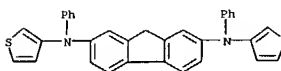
RN 142517-40-6 CAPLUS
CN Phenol, 3,3'-{9H-fluorene-2,7-diylbis(phenylimino)}bis- (9CI) (CA INDEX NAME)



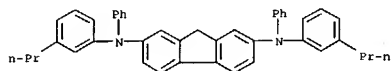
RN 142517-41-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-di-1-naphthalenyl- (9CI) (CA INDEX NAME)



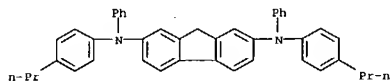
RN 142517-42-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methoxyphenyl)-N,N'-diphenyl- (9CI)
(CA INDEX NAME)



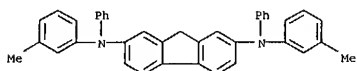
L4 ANSWER 215 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 142541-90-0 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-diphenyl-N,N'-bis(3-propylphenyl)- (9CI)
 (CA INDEX NAME)



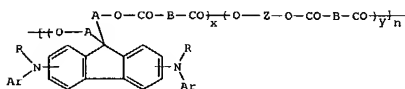
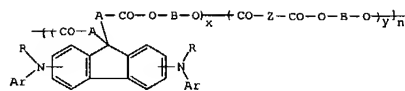
RN 142541-91-1 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-diphenyl-N,N'-bis(4-propylphenyl)- (9CI)
 (CA INDEX NAME)



IT 142517-32-6P
 RL: PREP (Preparation)
 (preparation of, charge-transporting agent, electrophotog.
 photoreceptor
 using)
 RN 142517-32-6 CAPLUS
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)
 (CA INDEX NAME)



L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
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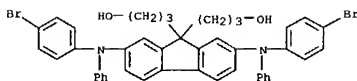
AB A layered photoresponsive imaging member is described comprised of a photogenerating layer, and in contact therewith a hole transporting layer comprised of fluorene charge transport polyesters: I and II [A, B, Z = bifunctional groups; R = alkyl or aryl group; Ar = aryl; x and y are mole fractional nos.; x > 0, n + y = 1 and n represents the number of repeating segments]. A photoconductor containing the above compound has improved cyclic stability and elec. properties.
 ACCESSION NUMBER: 1992:72244 CAPLUS
 DOCUMENT NUMBER: 116:72244
 TITLE: Photoconductive imaging members with fluorene polyester hole transporting layers
 INVENTOR(S): Ong, Beng S.; Baranyi, Giuseppe; Alexandru, Lupu
 PATENT ASSIGNEE(S): Xerox Corp., USA
 SOURCE: U.S., 15 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5034296	A	19910723	US 1989-332655	19890403
PRIORITY APPLN. INFO.:				
IT 137891-76-0	137892-37-6	137892-39-8	US 1989-332655	19890403
137912-27-7	137912-28-8	138105-61-0		
138626-49-0	138626-58-1			

RL: USES (Uses)
 (as charge-transporting agent in photoconductor)
 RN 137891-76-0 CAPLUS
 CN Decanedioic acid, polymer with 2,7-bis[(4-bromophenyl)phenylamino]-9H-fluorene-9,9-dipropylol and 2,2'-(phenylenebis(oxy))bis[ethanol] (9CI)
 (CA INDEX NAME)

CM 1
 CRN 137891-75-9
 CMF C43 H38 Br2 N2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2
 CRN 59472-36-5
 CMF C10 H14 O4
 CCI IDS



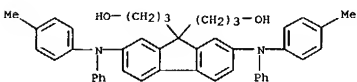
2 [HO-CH2-CH2-O-D1]

CM 3
 CRN 111-20-6
 CMF C10 H18 O4

HO2C-(CH2)8-CO2H

RN 137892-37-6 CAPLUS
 CN Octanedioic acid, polymer with 2,7-bis[(4-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropylol (9CI) (CA INDEX NAME)

CM 1
 CRN 137892-36-5
 CMF C45 H44 N2 O2



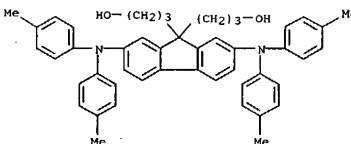
CM 2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CRN 505-48-6
 CMF C8 H14 O4

HO2C-(CH2)6-CO2H

RN 137892-39-8 CAPLUS
 CN Decanedioic acid, polymer with 2,7-bis[bis(4-methylphenyl)amino]-9H-fluorene-9,9-dipropylol (9CI) (CA INDEX NAME)

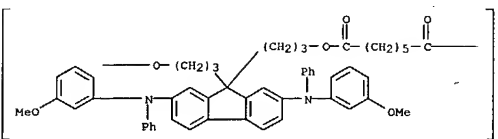
CM 1
 CRN 137892-38-7
 CMF C47 H48 N2 O2



CM 2
 CRN 111-20-6
 CMF C10 H18 O4

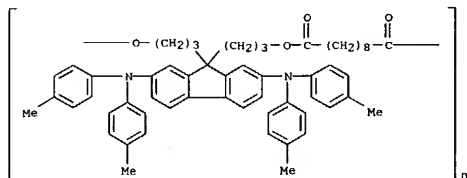
HO2C-(CH2)8-CO2H

RN 137912-27-7 CAPLUS
 CN Poly[oxy-1,3-propanediyl[2,7-bis[(3-methoxyphenyl)phenylamino]-9H-fluorene-9-ylidene]-1,3-propanediyl]oxy(1,7-dioxo-1,7-heptanediyl)] (9CI) (CA INDEX NAME)



RN 137912-28-8 CAPLUS

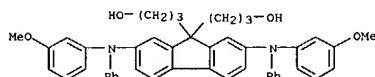
L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CN Poly[oxy-1,3-propanediyl[2,7-bis[bis(4-methylphenyl)amino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,10-dioxo-1,10-decanediyl)] (9CI) (CA INDEX NAME)



RN 138105-61-0 CAPLUS
 CN Heptanedioic acid, polymer with 2,7-bis[(3-methoxyphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)

CM 1

CRN 137388-34-2
 CMF C45 H44 N2 O4



CM 2

CRN 111-16-0
 CMF C7 H12 O4

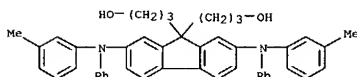
HO2C-(CH2)5-CO2H

RN 138626-49-0 CAPLUS
 CN Nonanedioyl dichloride, polymer with 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol and 1,6-hexanediol (9CI) (CA INDEX NAME)

CM 1

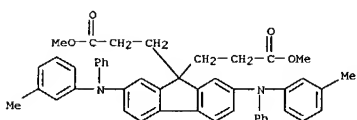
CRN 137269-26-2
 CMF C45 H44 N2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 137376-13-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of)

RN 137376-13-7 CAPLUS
 CN 9H-fluorene-9,9-dipropionic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester (9CI) (CA INDEX NAME)

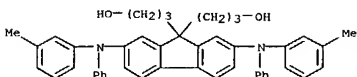


IT 137892-35-4P 137892-40-1P 137912-26-6P
 137912-29-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and use of, as charge-transferring agent in photoconductor)

RN 137892-35-4 CAPLUS
 CN Nonanedioyl dichloride, polymer with 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)

CM 1

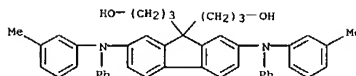
CRN 137269-26-2
 CMF C45 H44 N2 O2



CM 2

CRN 123-98-8
 CMF C9 H14 Cl2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



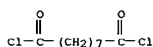
CM 2

CRN 629-11-8
 CMF C6 H14 O2

HO-(CH2)6-OH

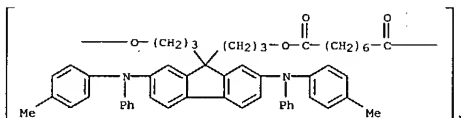
CM 3

CRN 123-98-8
 CMF C9 H14 Cl2 O2



RN 138626-58-1 CAPLUS

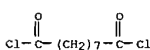
CN Poly[oxy-1,3-propanediyl[2,7-bis[(4-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,8-dioxo-1,8-octanediyl)] (9CI) (CA INDEX NAME)



IT 137269-26-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and copolymn. of)

RN 137269-26-2 CAPLUS
 CN 9H-fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)

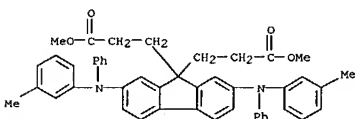
L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 137892-40-1 CAPLUS
 CN 9H-fluorene-9,9-dipropionic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester, polymer with 1,6-hexanediol (9CI) (CA INDEX NAME)

CM 1

CRN 137376-13-7
 CMF C47 H44 N2 O4

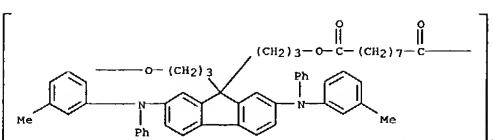


CM 2

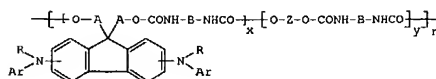
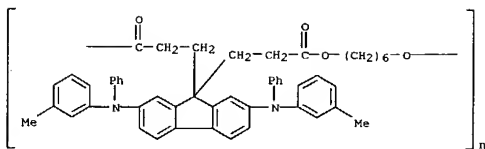
CRN 629-11-8
 CMF C6 H14 O2

HO-(CH2)6-OH

RN 137912-26-6 CAPLUS
 CN Poly[oxy-1,3-propanediyl[2,7-bis[(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,9-dioxo-1,9-nonanediyl)] (9CI) (CA INDEX NAME)



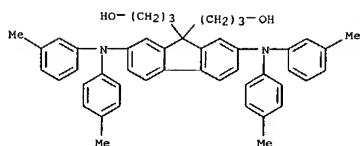
RN 137912-29-9 CAPLUS
 CN Poly[oxy-1,6-hexanediyoxy(1-oxo-1,3-propanediyl)[2,7-bis[(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene](3-oxo-1,3-propanediyl)] (9CI) (CA INDEX NAME)



AB A layered photoresponsive imaging member is described comprising a photogenerating layer, and in contact therewith a hole transporting layer comprised of charge transport polyurethanes I. [A,B,Z group of bifunctional linkages; R = alkyl or aryl; Ar = aryl; x and y represent the mole fraction nos. of the polyurethane structural composition units, subject to the provision that $x > 0$ and $x + y = 1$; and n represents the number of repeating segments. An electrostatic imaging method using the above polymethanes is also described. The material is useful in laser scanning imaging.

ACCESSION NUMBER: 1991:666750 CAPLUS
DOCUMENT NUMBER: 115:266750
TITLE: Photoconductive imaging members with polyurethane hole transporting layers
INVENTOR(S): Ong, Beng S.; Murti, Dasarao K.; Alexandru, Lupu
PATENT ASSIGNEE(S): Xerox Corp., USA
SOURCE: U.S., 15 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4983482	A	19910108	US 1989-332650	19890403
PRIORITY APPLN. INFO.:			US 1989-332650	19890403
IT 137222-33-4		137222-41-4		
137304-92-8				
RL: USES (Uses)				
(charge-transporting agent, in photoconductor)				
RN 137222-33-4	CAPLUS			
CN 9H-Fluorene-9,9-dipropenol,				
2,7-bis[(3-methylphenyl)(4-methylphenyl)amino]-				
, polymer with diisocyanatobenzene (9CI) (CA INDEX NAME)				
CM 1				
CRN 137222-32-3				
CMF C47 H48 N2 O2				



CM 2

CRN 27359-20-2
CMF C8 H4 N2 O2
CCI IDS

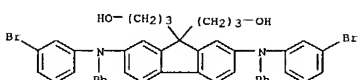


2 (D1-NCO)

RN 137222-41-4 CAPLUS
CN 9H-Fluorene-9,9-dipropenol, 2,7-bis[(3-bromophenyl)phenylamino]-, polymer with 1,6-hexanediol and 1,1'-methylenebis(isocyanatobenzene) (9CI) (CA INDEX NAME)

CM 1

CRN 137222-40-3
CMF C43 H38 Br2 N2 O2



CM 2

CRN 26447-40-5
CMF C15 H10 N2 O2
CCI IDS



1/2 [D1-CH2-D1]

D1-NCO

CM 3

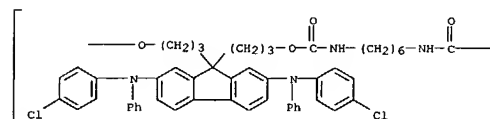
CRN 629-11-8
CMF C6 H14 O2

HO-(CH2)6-OH

RN 137222-89-0 CAPLUS

CN Poly[oxy-1,3-propanediyl[2,7-bis[(4-chlorophenyl)phenylamino]-9H-fluorene-9-ylidene]-1,3-propanediyl]oxycarbonylimino-1,6-hexanediyliminocarbonyl (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

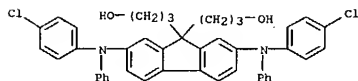


RN 137304-92-8 CAPLUS
CN 9H-Fluorene-9,9-dipropenol, 2,7-bis[(4-chlorophenyl)phenylamino]-, polymer

L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 137304-91-7
CMF C43 H38 Cl2 N2 O2

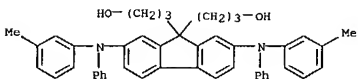


CM 2

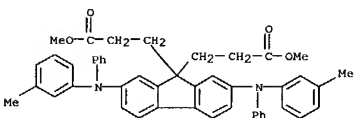
CRN 822-06-0
CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

IT 137269-26-2P 137376-13-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, charge-transporting polyurethane from)
RN 137269-26-2 CAPLUS
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)

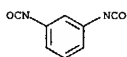


RN 137376-13-7 CAPLUS
CN 9H-Fluorene-9,9-dipropanoic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester (9CI) (CA INDEX NAME)



IT 137269-27-3P 137323-88-7P 137388-35-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as charge-transporting agent in photoconductor)

L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CCI IDS



D1-Me

CM 3

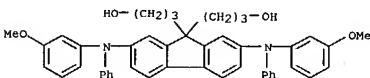
CRN 111-46-6
CMF C4 H10 O3

HO-CH₂-CH₂-O-CH₂-CH₂-OH

RN 137388-35-3 CAPLUS
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methoxyphenyl)phenylamino]-, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

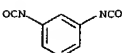
CM 1

CRN 137388-34-2
CMF C45 H44 N2 O4



CM 2

CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS

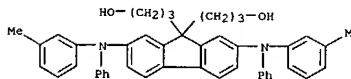


D1-Me

L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 137269-27-3 CAPLUS
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]-, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

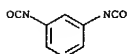
CM 1

CRN 137269-26-2
CMF C45 H44 N2 O2



CM 2

CRN 26471-62-5
CMF C9 H6 N2 O2
CCI IDS

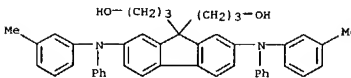


D1-Me

RN 137323-88-7 CAPLUS
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]-, polymer with 1,3-diisocyanatomethylbenzene and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

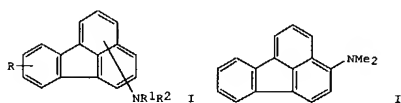
CRN 137269-26-2
CMF C45 H44 N2 O2



CM 2

CRN 26471-62-5
CMF C9 H6 N2 O2

L4 ANSWER 218 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
GI



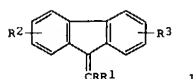
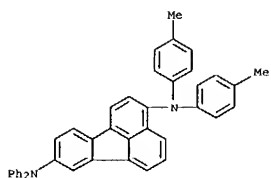
AB The title photoreceptor comprises an elec. conductive support with a coating of a photosensitive layer containing a fluorene derivative I [R = H, halo, (substituted) alkyl, alkoxy, or NH₂; R₁, R₂ = (substituted) alkyl, aralkyl, aryl, or heterocycle, R₁ and R₂ may form a 5- or 6-membered ring together with the N atom.]. The photoreceptor is easy to prepare, shows good photosensitivity and durability in continuously repeated use. Thus, an Al substrate was coated with a charge-generating layer containing a diazo pigment and with a charge-transporting layer containing II to give a photoreceptor.

ACCESSION NUMBER: 1991:570936 CAPLUS
DOCUMENT NUMBER: 115:170936
TITLE: Electrophotographic photoreceptor using fluorene derivative charge-transporting agent
INVENTOR(S): Yoshiro, Ryoji; Kikuchi, Norihiro; Senoo, Akihiro; Kanamaru, Tetsuo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JXXXXF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03078757	A2	19910403	JP 1989-214926	19890823
136480-46-1			JP 1989-214926	19890823

IT 136480-46-1
RL: USES (Uses)
(charge-transporting agent, electrophotog. photoreceptor using)

RN 136480-46-1 CAPLUS
CN 3,8-Fluoranthenediamine, N₃,N₃-bis(4-methylphenyl)-N₈,N₈-diphenyl- (9CI) (CA INDEX NAME)



AB The photoreceptor comprise a conductive support with a coating of a photosensitive layer containing a fluorenylidene derivative I [R, R1 = (substituted) alkyl, (substituted) aralkyl, (substituted) aromatic or heterocyclic ring; R2, R3 = H, (substituted) alkyl, alkoxy, NO2, halo, substituted amino, 21 of R, R1, R2, and R3 should be substituted amino or should have amino as a substituent]. The photoreceptors show good photosensitivity, stable potential and good durability in repeated use. Thus, an Al sheet was coated with a charge-generating layer containing a disazo pigment and with a charge-transporting layer containing I (R = R1

= p-C6H4NPh2, R2 = R3 = H) to give a photoreceptor.

ACCESSION NUMBER: 1991:153904 CAPLUS

DOCUMENT NUMBER: 114:153904

TITLE: Electrophotographic photoreceptors using fluorenylidene derivative as charge-transporting

agent

INVENTOR(S): Suzuki, Koichi; Kikuchi, Norihiro; Kanamaru, Tetsuo

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKKXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

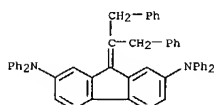
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02167552	A2	19900627	JP 1988-320708	19881221

PRIORITY APPLN. INFO.:
 IT 132871-15-9 132871-22-8 132871-23-9
 132871-24-0 132871-29-5 132871-30-8
 132871-31-9
 RL: USES (Uses)
 (charge-transporting agent, electrophotog. photoreceptor using)

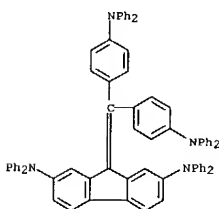
RN 132871-15-9 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl-9-[2-phenyl-1-(phenylmethyl)ethylidene]- (9CI) (CA INDEX NAME)



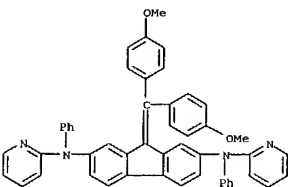
RN 132871-22-8 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-[bis(4-(diphenylamino)phenyl)methylene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 132871-23-9 CAPLUS

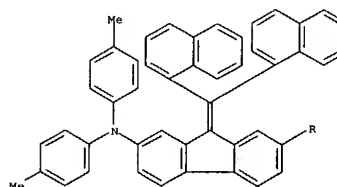
CN 9H-Fluorene-2,7-diamine, 9-[bis(4-methoxyphenyl)methylene]-N,N'-diphenyl-N,N'-di-2-pyridinyl- (9CI) (CA INDEX NAME)



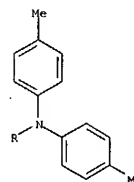
RN 132871-24-0 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-(di-1-naphthalenylmethylene)-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

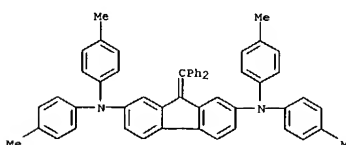


PAGE 2-A



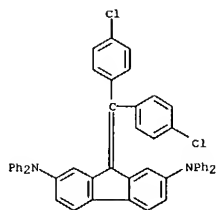
RN 132871-29-5 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-(diphenylmethylene)-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)

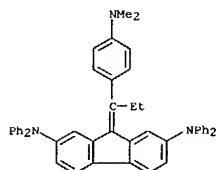


RN 132871-30-8 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-[bis(4-chlorophenyl)methylene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

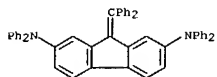


RN 132871-31-9 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-[1-[4-(dimethylamino)phenyl]propylidene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

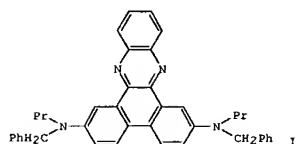
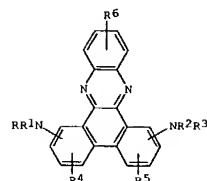
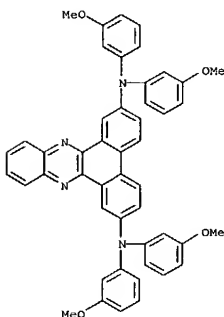


IT 132871-13-7P
RL: PREP (Preparation)
(preparation of, charge-transporting agent, electrophotog. photoreceptor using)

RN 132871-13-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-(diphenylmethylene)-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



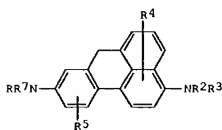
L4 ANSWER 220 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 130821-10-2 CAPLUS
CN Dibenzo[a,c]phenazine-2,7-diamine, N,N,N',N'-tetrakis(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



AB The title photoreceptors comprise a conductive support with a coating of a photosensitive layer containing a phenazine derivative I [R, R1-3 = H, (substituted) alkyl, aralkyl, aryl, heterocycle, R and R1, R2 and R3 may form a 5- to 7- membered ring; R4-6 = H, (substituted) alkyl, alkoxy, halo, NO2]. A photoreceptor using a bisazo pigment and II showed good photosensitivity and durability.

ACCESSION NUMBER: 1991:14907 CAPLUS
DOCUMENT NUMBER: 114:14907
TITLE: Electrophotographic photoreceptors using phenazine derivative as charge-transporting agent
INVENTOR(S): Kanamaru, Tetsuro; Kikuchi, Norihiro; Suzuki, Koichi
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02134644	A2	19900523	JP 1988-286861	19881115
PRIORITY APPL. INFO.:			JP 1988-286861	19881115
IT 130821-10-2				
RL: USES (Uses)				
(charge-transporting agent, electrophotog. photoreceptor using)				

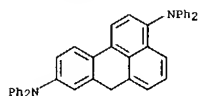


AB The electrophotog. photoreceptors have a photosensitive layer containing a diaminobenzanthrene derivative of the formula I [R, R1-3 = (un)substituted alkyl, aralkyl, identical or different; R4, R5 = halo, alkyl, alkoxy, NO2, CN, identical or different]. The photoreceptors exhibit good sensitivity and durability. Thus, an Al sheet was coated with a charge-generating composition containing a bisazo pigment and a butyral resin, then coated with a charge-transporting composition containing I (R, R1-3 = benzyl; R4, R5 = H) and polycarbonate to give a photoreceptor, which was corona-discharged at -5 kV. The original potential, retained potential after 1 s in the dark, and exposure required to halve the retained potential were -700 V, -695 V, and 2.3 lx-s, resp.

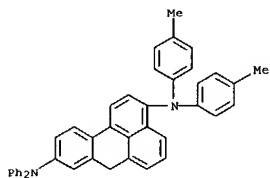
ACCESSION NUMBER: 1990:226763 CAPLUS
DOCUMENT NUMBER: 112:226763
TITLE: Electrophotographic photoreceptors containing diaminobenzanthrene derivatives
INVENTOR(S): Shino, Yasuko; Kikuchi, Norihiro
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01271755	A2	19891030	JP 1988-100366	19880425
JP 08033665	B4	19960329		
PRIORITY APPL. INFO.:			JP 1988-100366	19880425
OTHER SOURCE(S):		MARPAT 112:226763		
IT 127105-80-0		127105-83-3 127105-88-8		
127105-89-9				
RL: USES (Uses)				
(electrophotog. photoreceptor containing, for durability)				
RN 127105-80-0				
CN 7H-Benz[de]anthracene-3,9-diamine, N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)				

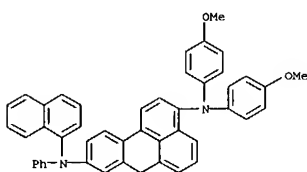
L4 ANSWER 221 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 127105-83-3 CAPLUS
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methylphenyl)-N9,N9-diphenyl- (9CI) (CA INDEX NAME)

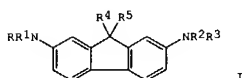


RN 127105-88-8 CAPLUS
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methoxyphenyl)-N9-1-naphthalenyl-N9-phenyl- (9CI) (CA INDEX NAME)



RN 127105-89-9 CAPLUS
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methoxyphenyl)-N9,N9-diphenyl- (9CI) (CA INDEX NAME)

L4 ANSWER 222 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
GI



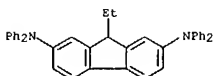
AB An electrophotog. photoreceptor is comprised of a layer containing I (R, R1, R2, R3, R4, R5 = (un)substituted alkyl, aryl, or aralkyl; R and R1 or R2 and R4 together form a heterocycle; and R5 or R6 may be H). A durable electrophotog. photoreceptor having high sensitivity and improved light and elec.-potential stabilities was comprised of a layer containing a charge-transport material of the formula I (R-R5 = Et) prepared from 2,7-diaminofluorene and EtBr.

ACCESSION NUMBER: 1988:213876 CAPLUS
DOCUMENT NUMBER: 108:213876
TITLE: Electrophotographic photoconductor
INVENTOR(S): Kikuchi, Norihiro; Takiguchi, Takao; Takahashi, Hideyuki; Umehara, Masashige; Matsumoto, Masakazu
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62208054	A2	19870912	JP 1986-49553	19860308
JP 06079165	B4	19941005		

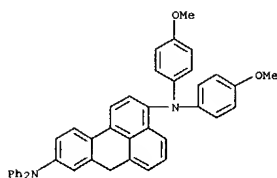
PRIORITY APPL. INFO.: JP 1986-49553 19860308

IT 114482-18-7 114482-19-8 114482-25-6
114482-31-4 114494-32-5
RL: USES (Uses)
(charge-transport materials, for electrophotog. photoreceptors)
RN 114482-18-7 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)

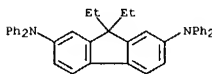


RN 114482-19-8 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-tetakis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

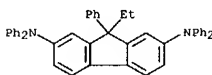
L4 ANSWER 221 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



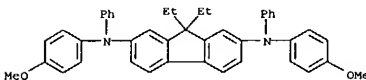
RN 114482-25-6 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 114482-31-4 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-pentaphenyl- (9CI) (CA INDEX NAME)



RN 114494-32-5 CAPLUS
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N',N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



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GI For diagram(s), see printed CA issue.

AB An electrophotog. photoreceptor is claimed which comprises a charge-transport layer containing a compound represented by I [X = moiety required for ring closure selected from O, SO, SO₂, CH₂CH₂, CO, COCH₂, CONH, N=N; R₁-R₄ = alkyl, aralkyl, aryl, heterocyclic group], wherein the photoreceptor is a separated type further comprising a charge-generating layer

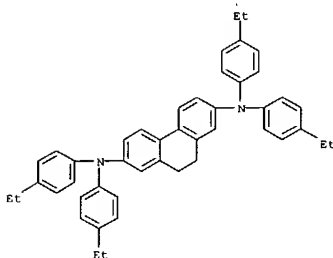
ACCESSION NUMBER: 1988:177186 CAPLUS
DOCUMENT NUMBER: 108:177186
TITLE: Organic charge transport layer in electrophotographic photoreceptor
INVENTOR(S): Yamashita, Masataka; Matsumoto, Masakazu; Takiguchi, Takao; Kikuchi, Norihiro; Miyazaki, Hajime
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62280850	A2	19871205	JP 1986-126855	19860530
JP 2501198	B2	19960529		

PRIORITY APPLN. INFO.: JP 1986-126855 19860530

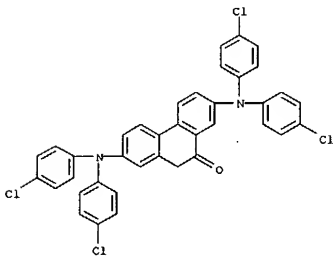
IT 113933-89-4 113933-90-7 113933-91-8
113933-92-9 113933-93-0
RL: USES (Uses)
(electrophotog. photoconductor)

RN 113933-89-4 CAPLUS
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-ethylphenyl)-9,10-dihydro- (9CI) (CA INDEX NAME)

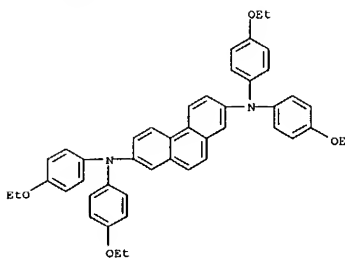


RN 113933-90-7 CAPLUS
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-ethoxyphenyl)- (9CI) (CA INDEX NAME)

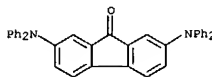
L4 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



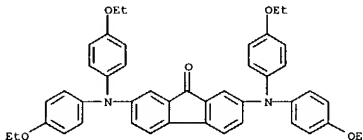
L4 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 113933-91-8 CAPLUS
CN 9H-Fluoren-9-one, 2,7-bis(diphenylamino)- (9CI) (CA INDEX NAME)



RN 113933-92-9 CAPLUS
CN 9H-Fluoren-9-one, 2,7-bis[bis(4-ethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 113933-93-0 CAPLUS
CN 9(10H)-Phenanthrenone, 2,7-bis[bis(4-chlorophenyl)amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 224 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN

AB The charge-generating tetrakisazo pigments have the formula (AN:NZ2)(AN:NZ3)NZ1N(Z4N:NA)(Z5N:NA) (I; A = coupler residue with a phenolic OH group; Z1 = arylene, condensed polycyclene; Z2-Z5 = arylene, condensed polycyclene, heterocyclene). An electrophotog. charge-generating layer may contain a tetrakisazo pigment of the formula

I (A = coupler residue from 3-hydroxy-2-naphthoic acid anilide; Z1 = 3,3'-dichloro-4,4'-biphenylene; Z2-Z5 = 1,4-phenylene) and a poly(vinyl butyral) binder. It provides electrophotog. photoreceptors with improved sensitivity and voltage stability for repeated use.

ACCESSION NUMBER: 1987:565421 CAPLUS
DOCUMENT NUMBER: 107:165421
TITLE: Electrophotographic charge-generating tetrakisazo pigments
INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao; Umehara, Masashige; Yamashita, Masataka; Ishikawa, Shozo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

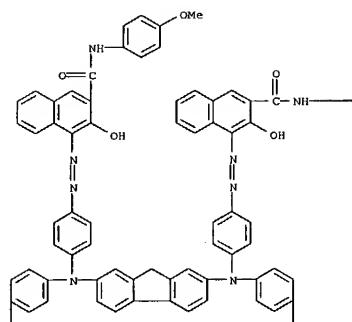
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62018566	A2	19870127	JP 1985-157700	19850717
US 4666810	A	19870519	US 1986-852243	19860415

PRIORITY APPLN. INFO.: JP 1985-80248 19850417
JP 1985-157699 19850717
JP 1985-157700 19850717
JP 1985-159401 19850718
JP 1985-159402 19850718
JP 1985-159403 19850718

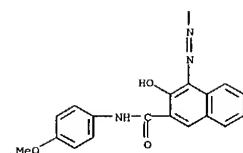
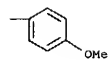
IT 110557-57-8 110557-59-0 110557-60-3
110557-61-4 110557-62-5 110557-65-8
110557-66-9 110557-78-3 110557-80-7
110557-81-8 110557-82-9 110557-83-0
110557-87-4 110557-88-5 110557-89-6
110557-90-9 110573-90-5
RL: USES (Uses)
(electrophotog. charge-generating pigments)

RN 110557-57-8 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[9H-fluorene-2,7-diylbis[nitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

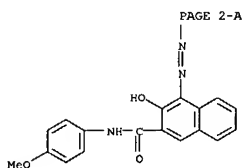
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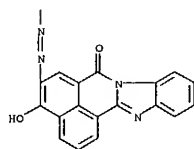


RN 110557-59-0 CAPLUS



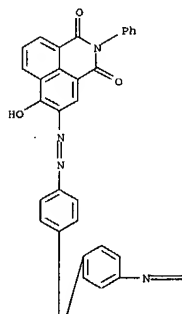
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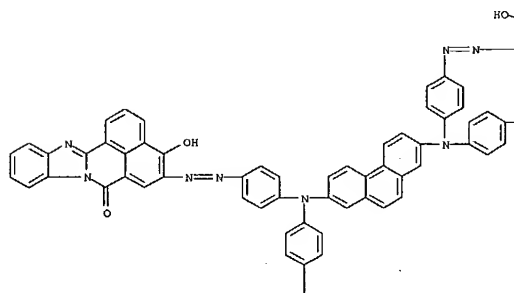


RN 110557-60-3 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 5,5',5'',5'''-[3,10-
perylene-diylbis(nitrilobis(4,1-phenyleneazo))]tetrakis[6-hydroxy-2-phenyl-
(9CI) (CA INDEX NAME)

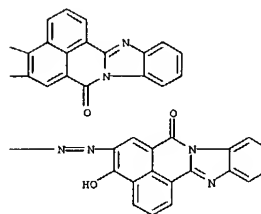
PAGE 1-A



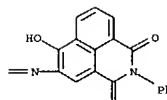
PAGE 1-A



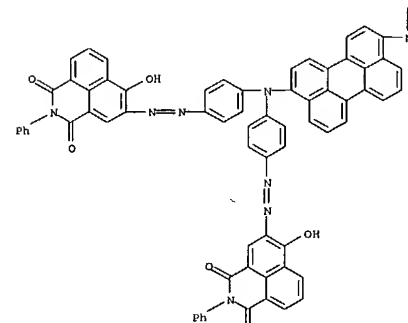
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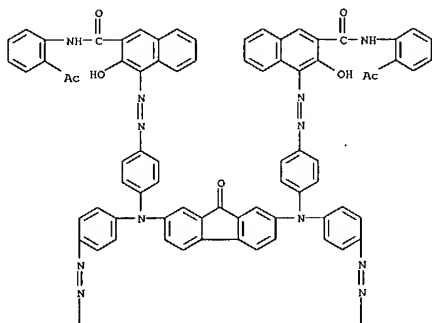
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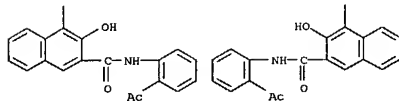
PAGE 3-A

RN 110557-61-4 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[N-(2-acetylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)]

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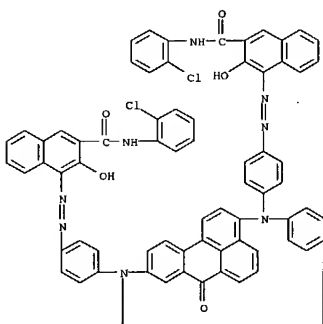


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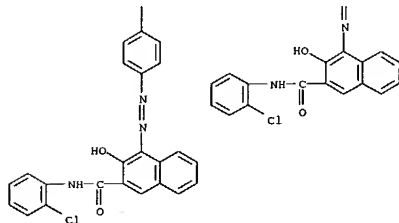


RN 110557-62-5 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-

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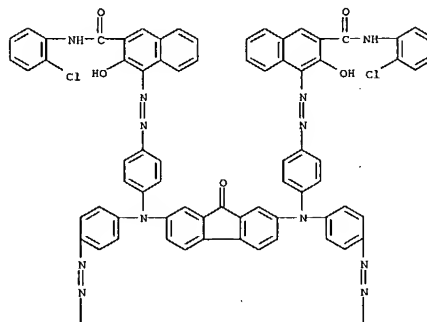


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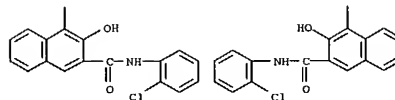


RN 110557-66-9 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-thioxo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-(2-(trifluoromethyl)phenyl)- (9CI) (CA INDEX NAME)]

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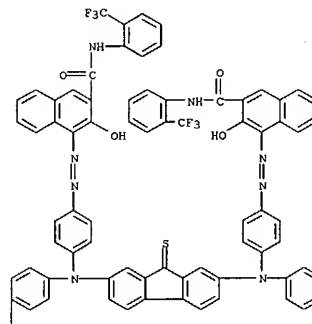


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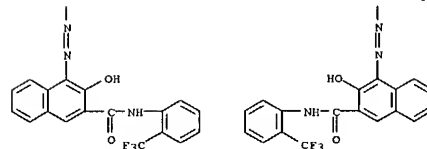


RN 110557-65-8 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(7-oxo-7H-benz[de]anthracene-3,9-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[N-(2-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)]

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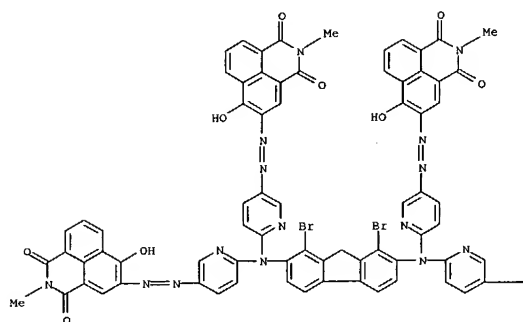


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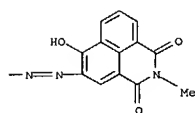


RN 110557-78-3 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 5,5',5'',5'''-[(1,8-dibromo-9H-fluorene-2,7-diyl)bis[nitrilobis(2,5-pyridinediylazo)]]tetrakis[6-hydroxy-2-methyl- (9CI) (CA INDEX NAME)]

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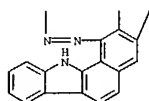


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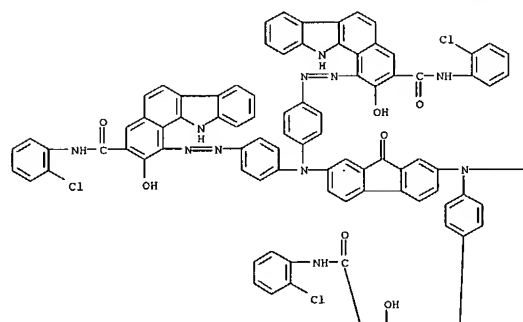
RN 110557-80-7 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide,
1,1',1'',1'''-[(9-oxo-9H-fluorene-2,7-
diyl)bis(nitrilobis(4,1-phenyleneazo))]tetrakis[2-hydroxy-N-phenyl]- (9CI)

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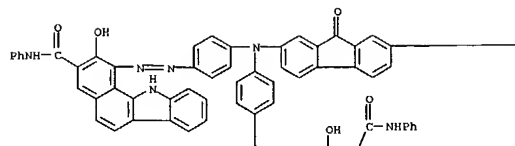


RN 110557-81-8 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide,
1,1',1'',1'''-[(9-oxo-9H-fluorene-2,7-
diyl)bis(nitrilobis(4,1-phenyleneazo))]tetrakis[2-hydroxy-N-phenyl]- (9CI) (CA INDEX NAME)

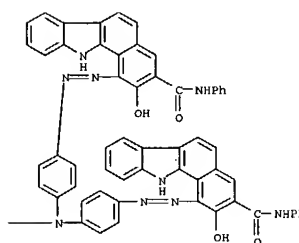
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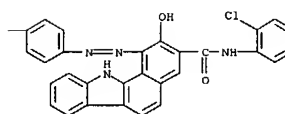
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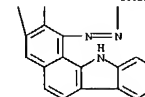
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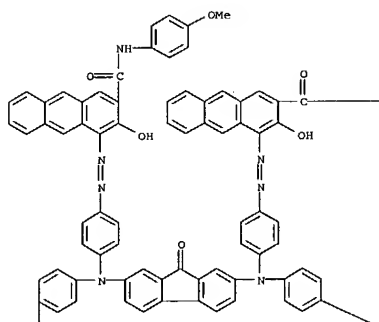


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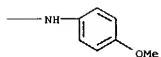


RN 110557-82-9 CAPLUS
CN 2-Anthracenecarboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-
diyl)bis(nitrilobis(4,1-phenyleneazo))]tetrakis[3-hydroxy-N-(4-
methoxyphenyl)]- (9CI) (CA INDEX NAME)

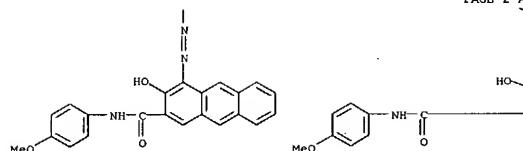
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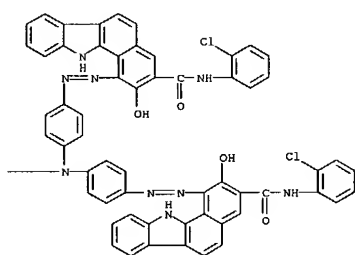
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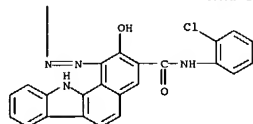
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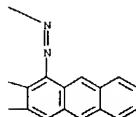


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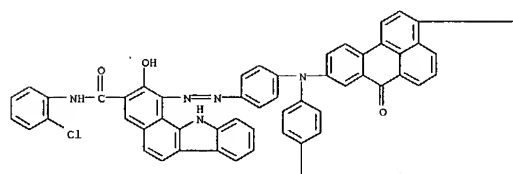
RN 110557-87-4 CAPLUS
CN 9H-Carbazole-3-carboxamide, 1,1',1'',1'''-[2,7-phenanthrenediylbis(nitrilobis(4,1-phenyleneazo))]tetrakis[2-hydroxy-N-1-naphthalenyl- (9CI) (CA INDEX NAME)

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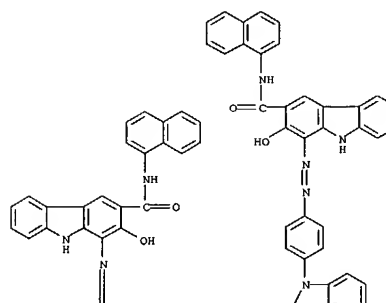


RN 110557-83-0 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(7-oxo-7H-benz[de]anthracene-3,9-diyl)bis(nitrilobis(4,1-phenyleneazo))]tetrakis[N-(2-chlorophenyl)-2-hydroxy- (9CI) (CA INDEX NAME)

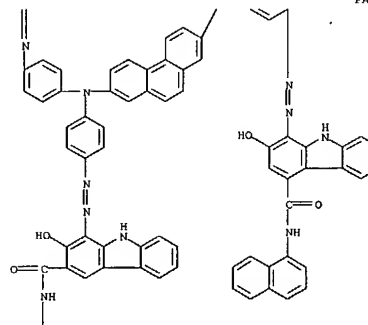
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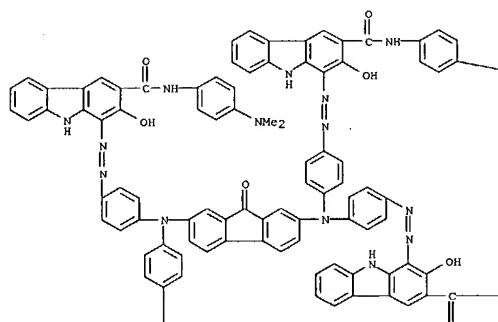


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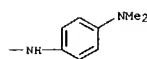
RN 110557-88-5 CAPLUS
CN 9H-Carbazole-3-carboxamide, 1,1',1'',1'''-[(9-oxo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenyleneazo)]]tetrakis[N-(4-(dimethylamino)phenyl)-2-hydroxy- (9CI) (CA INDEX NAME)

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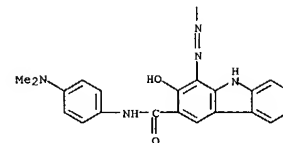


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NMe2

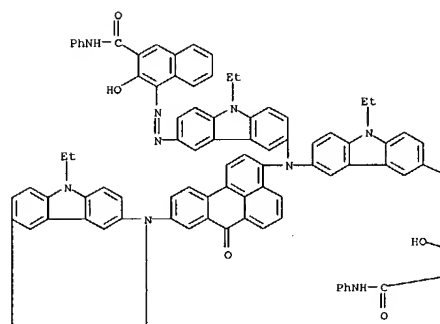


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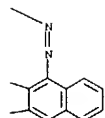


RN 110557-89-6 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(7-oxo-7H-benz[de]anthracene-3,9-diyl)bis[nitrilobis(9-ethyl-9H-carbazole-3,6-diyl)azo]]tetrakis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

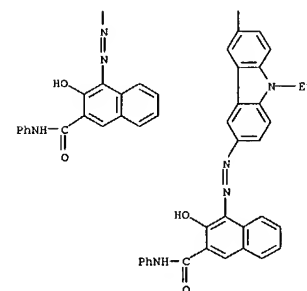
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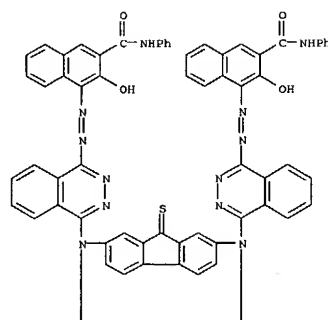


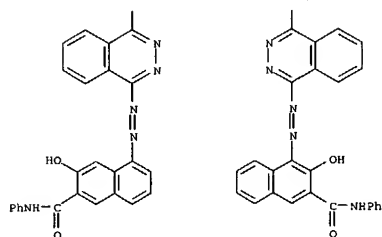
PAGE 2-A



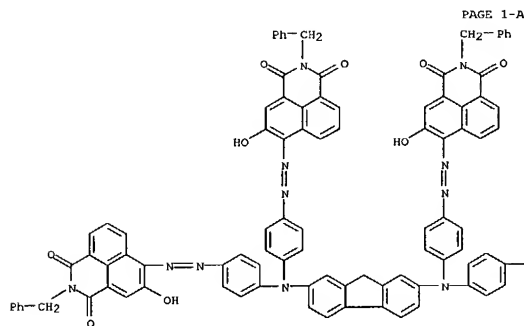
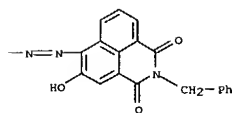
RN 110557-90-9 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-thioxo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phthalazinediylazo)]]tetrakis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

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RN 110573-90-5 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6,6',6'',6'''-[9H-fluorene-2,7-diylbis[nitrilobis(4,1-phenyleneazo)]]tetrakis[5-hydroxy-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
121.54	277.44
-17.33	-17.33

STN INTERNATIONAL LOGOFF AT 16:21:56 ON 17 FEB 2004